



Patin Docket Preview

P1618P2C3.txt

Sequence Listing

RECEIVED
APR 09 2003
TECH CENTER 1600/2900

<110> Chen, Jian
Goddard, Audrey
Gurney, Austin L.
Hillan, Kenneth
Pennica, Diane
Wood, William I.
Yuan, Jean

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

B!
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<140> US 09/903,806

<141> 2001-07-11

<150> US 09/665,350

<151> 2000-09-18

<150> PCT/US00/04414

<151> 2000-02-22

<150> PCT/US98/18824

<151> 1998-09-10

<150> US 60/062,287

<151> 1997-10-17

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<213> Homo Sapien

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P1618P2C3.txt

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 Page 2

P1618P2C3.txt

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Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro	230	235 240
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Cys Val Arg Lys Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr	305	310 315
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 Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu
 50 55 60
 Gly Lys Met Ala Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln
 65 70 75
 Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr
 80 85 90
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P1618P2C3.txt

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Glu Val Asp Val Ile Val Met Asn Ser	Glu Gly Asn Thr Ile	Leu
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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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				35					40					45
Ser	Gly	Asp	Pro	Ala	Ser	Tyr	Arg	Leu	Trp	Gly	Ala	Pro	Leu	Gln
				50					55					60
Pro	Thr	Leu	Gly	Val	Val	Pro	Gln	Ala	Ser	Val	Pro	Leu	Leu	Thr
				65					70					75
Asp	Leu	Ala	Gln	Trp	Glu	Pro	Val	Leu	Val	Pro	Glu	Ala	His	Pro
				80					85					90
Asn	Ala	Ser	Leu	Thr	Met	Tyr	Val	Cys	Thr	Pro	Val	Pro	His	Pro
				95					100					105
Asp	Pro	Pro	Met	Ala	Leu	Ser	Arg	Thr	Pro	Thr	Arg	Gln	Ile	Ser
				110					115					120
Ser	Ser	Asp	Thr	Asp	Pro	Pro	Ala	Asp	Gly	Pro	Ser	Asn	Pro	Leu
				125					130					135
Cys	Cys	Cys	Phe	His	Gly	Pro	Ala	Phe	Ser	Thr	Leu	Asn	Pro	Val
				140					145					150
Leu	Arg	His	Leu	Phe	Pro	Gln	Glu	Ala	Phe	Pro	Ala	His	Pro	Ile
				155					160					165
Tyr	Asp	Leu	Ser	Gln	Val	Trp	Ser	Val	Val	Ser	Pro	Ala	Pro	Ser
				170					175					180
Arg	Gly	Gln	Ala	Leu	Arg	Arg	Ala	Gln						
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 19
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<210> 20
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 20
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<210> 21
 <211> 44
 <212> DNA
 <213> Artificial Sequence

P1618P2C3.txt

<220>

<223> Synthetic Oligonucleotide Probe

<400> 21

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<210> 22

<211> 1200

<212> DNA

<213> Homo Sapien

<400> 22

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gtgagggacc agggcgccat gaccgaccag ctgagcaggc ggcagatccg 150
cgagtaccaa ctctacagca ggaccagtgg caagcacgtg caggtcaccg 200
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<210> 23

<211> 205

P1618P2C3.txt

<212> PRT
<213> Homo Sapien

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Ala Met Thr Asp Gln Leu Ser Arg Arg Gln Ile Arg Glu Tyr Gln
35 40 45
Leu Tyr Ser Arg Thr Ser Gly Lys His Val Gln Val Thr Gly Arg
50 55 60
Arg Ile Ser Ala Thr Ala Glu Asp Gly Asn Lys Phe Ala Lys Leu
65 70 75
Ile Val Glu Thr Asp Thr Phe Gly Ser Arg Val Arg Ile Lys Gly
80 85 90
Ala Glu Ser Glu Lys Tyr Ile Cys Met Asn Lys Arg Gly Lys Leu
95 100 105
Ile Gly Lys Pro Ser Gly Lys Ser Lys Asp Cys Val Phe Thr Glu
110 115 120
Ile Val Leu Glu Asn Asn Tyr Thr Ala Phe Gln Asn Ala Arg His
125 130 135
Glu Gly Trp Phe Met Ala Phe Thr Arg Gln Gly Arg Pro Arg Gln
140 145 150
Ala Ser Arg Ser Arg Gln Asn Gln Arg Glu Ala His Phe Ile Lys
155 160 165
Arg Leu Tyr Gln Gly Gln Leu Pro Phe Pro Asn His Ala Glu Lys
170 175 180
Gln Lys Gln Phe Glu Phe Val Gly Ser Ala Pro Thr Arg Arg Thr
185 190 195
Lys Arg Thr Arg Arg Pro Gln Pro Leu Thr
200 205

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<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 24
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<210> 25
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<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 25

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<210> 26

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<220>

<221> unsure

<222> 21

<223> unknown base

<400> 26

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<210> 27

<211> 2479

<212> DNA

<213> Homo Sapien

<400> 27

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 gagacagcag ggagattatt ttaccatacg ccctcaggac gttccctcta 150
 gctggagttc tggacttcaa cagaacccca tccagtcatt ttgattttgc 200
 tgtttatttt ttttttcttt ttctttttcc caccacattg tattttattt 250
 ccgtacttca gaaatgggcc tacagaccac aaagtggccc agccatgggg 300
 cttttttcct gaagtcttgg cttatcattt ccctggggct ctactcacag 350
 gtgtccaaac tcctggcctg ccctagtgtg tgccgctgcg acaggaactt 400
 tgtctactgt aatgagcgaa gcttgacctc agtgcctctt gggatcccgg 450
 agggcgtaac cgtactctac ctccacaaca accaaattaa taatgctgga 500
 tttcctgcag aactgcacaa tgtacagtcg gtgcacacgg tctacctgta 550
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 cacagtgggg gtggaagacg gggccttccg ggaggctatt agcctcaaata 750
 tgttgttttt gtctaagaat cacctgagca gtgtgcctgt tgggcttcct 800
 gtggacttgc aagagctgag agtggatgaa aatcgaattg ctgtcatata 850
 cgacatggcc ttccagaata tcacgagctt ggagcgtctt attgtggacg 900

P1618P2C3.txt

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 tcccgatctc ccaggtagcg atctgatcag gctctatttg caggacaacc 1050
 agataaacca cattcctttg acagccttct caaatctgcy taagctggaa 1100
 cggctggata tatccaacaa ccaactgcyg atgctgactc aaggggtttt 1150
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 tcatctctca acgtgcgggg tttcatgtgc caaggctctg aacaagtccg 1300
 ggggatggcc gtcagggaat taaatatgaa tcttttgtcc tgtcccacca 1350
 cgaccccccg cctgcctctc ttcacccag cccaagtac agcttctccg 1400
 accactcagc ctccaccct ctctattcca aaccctagca gaagctacac 1450
 gcctccaact cctaccacat cgaaacttcc cacgattcct gactgggatg 1500
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P1618P2C3.txt

<210> 28
 <211> 660
 <212> PRT
 <213> Homo Sapien

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 35 40 45
 Phe Val Tyr Cys Asn Glu Arg Ser Leu Thr Ser Val Pro Leu Gly
 50 55 60
 Ile Pro Glu Gly Val Thr Val Leu Tyr Leu His Asn Asn Gln Ile
 65 70 75
 Asn Asn Ala Gly Phe Pro Ala Glu Leu His Asn Val Gln Ser Val
 80 85 90
 His Thr Val Tyr Leu Tyr Gly Asn Gln Leu Asp Glu Phe Pro Met
 95 100 105
 Asn Leu Pro Lys Asn Val Arg Val Leu His Leu Gln Glu Asn Asn
 110 115 120
 Ile Gln Thr Ile Ser Arg Ala Ala Leu Ala Gln Leu Leu Lys Leu
 125 130 135
 Glu Glu Leu His Leu Asp Asp Asn Ser Ile Ser Thr Val Gly Val
 140 145 150
 Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser Leu Lys Leu Leu Phe
 155 160 165
 Leu Ser Lys Asn His Leu Ser Ser Val Pro Val Gly Leu Pro Val
 170 175 180
 Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile Ala Val Ile
 185 190 195
 Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg Leu Ile
 200 205 210
 Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly Thr
 215 220 225
 Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
 230 235 240
 Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile
 245 250 255
 Arg Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr
 260 265 270
 Ala Phe Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn
 275 280 285

P1618P2C3.txt

Asn	Gln	Leu	Arg	Met	Leu	Thr	Gln	Gly	Val	Phe	Asp	Asn	Leu	Ser	290	295	300
Asn	Leu	Lys	Gln	Leu	Thr	Ala	Arg	Asn	Asn	Pro	Trp	Phe	Cys	Asp	305	310	315
Cys	Ser	Ile	Lys	Trp	Val	Thr	Glu	Trp	Leu	Lys	Tyr	Ile	Pro	Ser	320	325	330
Ser	Leu	Asn	Val	Arg	Gly	Phe	Met	Cys	Gln	Gly	Pro	Glu	Gln	Val	335	340	345
Arg	Gly	Met	Ala	Val	Arg	Glu	Leu	Asn	Met	Asn	Leu	Leu	Ser	Cys	350	355	360
Pro	Thr	Thr	Thr	Pro	Gly	Leu	Pro	Leu	Phe	Thr	Pro	Ala	Pro	Ser	365	370	375
Thr	Ala	Ser	Pro	Thr	Thr	Gln	Pro	Pro	Thr	Leu	Ser	Ile	Pro	Asn	380	385	390
Pro	Ser	Arg	Ser	Tyr	Thr	Pro	Pro	Thr	Pro	Thr	Thr	Ser	Lys	Leu	395	400	405
Pro	Thr	Ile	Pro	Asp	Trp	Asp	Gly	Arg	Glu	Arg	Val	Thr	Pro	Pro	410	415	420
Ile	Ser	Glu	Arg	Ile	Gln	Leu	Ser	Ile	His	Phe	Val	Asn	Asp	Thr	425	430	435
Ser	Ile	Gln	Val	Ser	Trp	Leu	Ser	Leu	Phe	Thr	Val	Met	Ala	Tyr	440	445	450
Lys	Leu	Thr	Trp	Val	Lys	Met	Gly	His	Ser	Leu	Val	Gly	Gly	Ile	455	460	465
Val	Gln	Glu	Arg	Ile	Val	Ser	Gly	Glu	Lys	Gln	His	Leu	Ser	Leu	470	475	480
Val	Asn	Leu	Glu	Pro	Arg	Ser	Thr	Tyr	Arg	Ile	Cys	Leu	Val	Pro	485	490	495
Leu	Asp	Ala	Phe	Asn	Tyr	Arg	Ala	Val	Glu	Asp	Thr	Ile	Cys	Ser	500	505	510
Glu	Ala	Thr	Thr	His	Ala	Ser	Tyr	Leu	Asn	Asn	Gly	Ser	Asn	Thr	515	520	525
Ala	Ser	Ser	His	Glu	Gln	Thr	Thr	Ser	His	Ser	Met	Gly	Ser	Pro	530	535	540
Phe	Leu	Leu	Ala	Gly	Leu	Ile	Gly	Gly	Ala	Val	Ile	Phe	Val	Leu	545	550	555
Val	Val	Leu	Leu	Ser	Val	Phe	Cys	Trp	His	Met	His	Lys	Lys	Gly	560	565	570
Arg	Tyr	Thr	Ser	Gln	Lys	Trp	Lys	Tyr	Asn	Arg	Gly	Arg	Arg	Lys	575	580	585
Asp	Asp	Tyr	Cys	Glu	Ala	Gly	Thr	Lys	Lys	Asp	Asn	Ser	Ile	Leu	590	595	600

P1618P2C3.txt

Glu Met Thr Glu Thr Ser Phe Gln Ile Val Ser Leu Asn Asn Asp
605 610 615

Gln Leu Leu Lys Gly Asp Phe Arg Leu Gln Pro Ile Tyr Thr Pro
620 625 630

Asn Gly Gly Ile Asn Tyr Thr Asp Cys His Ile Pro Asn Asn Met
635 640 645

Arg Tyr Cys Asn Ser Ser Val Pro Asp Leu Glu His Cys His Thr
650 655 660

<210> 29

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 29

cggtctacct gtatggcaac c 21

<210> 30

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 30

gcaggacaac cagataaacc ac 22

<210> 31

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 31

acgcagattt gagaaggctg tc 22

<210> 32

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 32

ttcacgggct gctcttgccc agctcttgaa gcttgaagag ctgcac 46

<210> 33

<211> 3449

<212> DNA

<213> Homo Sapien

<400> 33

P1618P2C3.txt

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P1618P2C3.txt

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 gacaagaagt atacactaac ttgtataaat ttatctagga aaaaaatcct 3150

P1618P2C3.txt

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tagtgtgcaa tctcatttga ctatacgata aagtttgcac agtcttactt 3300
ctgtagaaca ctggccatag gaaatgctgt ttttttgtac tggactttac 3350
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tgtggaacaa gttggatttt ttatacaata ttaaaattca ccacttcag 3449

<210> 34
<211> 915
<212> PRT
<213> Homo Sapien

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20 25 30
Ser Ile Ser Arg Gly Arg His Ala Arg Thr His Pro Gln Thr Ala
35 40 45
Leu Leu Glu Ser Ser Cys Glu Asn Lys Arg Ala Asp Leu Val Phe
50 55 60
Ile Ile Asp Ser Ser Arg Ser Val Asn Thr His Asp Tyr Ala Lys
65 70 75
Val Lys Glu Phe Ile Val Asp Ile Leu Gln Phe Leu Asp Ile Gly
80 85 90
Pro Asp Val Thr Arg Val Gly Leu Leu Gln Tyr Gly Ser Thr Val
95 100 105
Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys Arg Lys Ser Glu Val
110 115 120
Glu Arg Ala Val Lys Arg Met Arg His Leu Ser Thr Gly Thr Met
125 130 135
Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala Phe Ser Glu
140 145 150
Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg Val Ile
155 160 165
Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu Val
170 175 180
Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly
185 190 195
Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu
200 205 210
Pro His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile
215 220 225

P1618P2C3.txt

Glu Thr Leu Thr	Ser 230	Val Phe Gln Lys	Lys 235	Leu Cys Thr Ala	His 240
Met Cys Ser Thr	Leu 245	Glu His Asn Cys	Ala 250	His Phe Cys Ile	Asn 255
Ile Pro Gly Ser	Tyr 260	Val Cys Arg Cys	Lys 265	Gln Gly Tyr Ile	Leu 270
Asn Ser Asp Gln	Thr 275	Thr Cys Arg Ile	Gln 280	Asp Leu Cys Ala	Met 285
Glu Asp His Asn	Cys 290	Glu Gln Leu Cys	Val 295	Asn Val Pro Gly	Ser 300
Phe Val Cys Gln	Cys 305	Tyr Ser Gly Tyr	Ala 310	Leu Ala Glu Asp	Gly 315
Lys Arg Cys Val	Ala 320	Val Asp Tyr Cys	Ala 325	Ser Glu Asn His	Gly 330
Cys Glu His Glu	Cys 335	Val Asn Ala Asp	Gly 340	Ser Tyr Leu Cys	Gln 345
Cys His Glu Gly	Phe 350	Ala Leu Asn Pro	Asp 355	Glu Lys Thr Cys	Thr 360
Arg Ile Asn Tyr	Cys 365	Ala Leu Asn Lys	Pro 370	Gly Cys Glu His	Glu 375
Cys Val Asn Met	Glu 380	Glu Ser Tyr Tyr	Cys 385	Arg Cys His Arg	Gly 390
Tyr Thr Leu Asp	Pro 395	Asn Gly Lys Thr	Cys 400	Ser Arg Val Asp	His 405
Cys Ala Gln Gln	Asp 410	His Gly Cys Glu	Gln 415	Leu Cys Leu Asn	Thr 420
Glu Asp Ser Phe	Val 425	Cys Gln Cys Ser	Glu 430	Gly Phe Leu Ile	Asn 435
Glu Asp Leu Lys	Thr 440	Cys Ser Arg Val	Asp 445	Tyr Cys Leu Leu	Ser 450
Asp His Gly Cys	Glu 455	Tyr Ser Cys Val	Asn 460	Met Asp Arg Ser	Phe 465
Ala Cys Gln Cys	Pro 470	Glu Gly His Val	Leu 475	Arg Ser Asp Gly	Lys 480
Thr Cys Ala Lys	Leu 485	Asp Ser Cys Ala	Leu 490	Gly Asp His Gly	Cys 495
Glu His Ser Cys	Val 500	Ser Ser Glu Asp	Ser 505	Phe Val Cys Gln	Cys 510
Phe Glu Gly Tyr	Ile 515	Leu Arg Glu Asp	Gly 520	Lys Thr Cys Arg	Arg 525
Lys Asp Val Cys	Gln 530	Ala Ile Asp His	Gly 535	Cys Glu His Ile	Cys 540

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Val	Asn	Ser	Asp	Asp	Ser	Tyr	Thr	Cys	Glu	Cys	Leu	Glu	Gly	Phe
				545					550					555
Arg	Leu	Ala	Glu	Asp	Gly	Lys	Arg	Cys	Arg	Arg	Lys	Asp	Val	Cys
				560					565					570
Lys	Ser	Thr	His	His	Gly	Cys	Glu	His	Ile	Cys	Val	Asn	Asn	Gly
				575					580					585
Asn	Ser	Tyr	Ile	Cys	Lys	Cys	Ser	Glu	Gly	Phe	Val	Leu	Ala	Glu
				590					595					600
Asp	Gly	Arg	Arg	Cys	Lys	Lys	Cys	Thr	Glu	Gly	Pro	Ile	Asp	Leu
				605					610					615
Val	Phe	Val	Ile	Asp	Gly	Ser	Lys	Ser	Leu	Gly	Glu	Glu	Asn	Phe
				620					625					630
Glu	Val	Val	Lys	Gln	Phe	Val	Thr	Gly	Ile	Ile	Asp	Ser	Leu	Thr
				635					640					645
Ile	Ser	Pro	Lys	Ala	Ala	Arg	Val	Gly	Leu	Leu	Gln	Tyr	Ser	Thr
				650					655					660
Gln	Val	His	Thr	Glu	Phe	Thr	Leu	Arg	Asn	Phe	Asn	Ser	Ala	Lys
				665					670					675
Asp	Met	Lys	Lys	Ala	Val	Ala	His	Met	Lys	Tyr	Met	Gly	Lys	Gly
				680					685					690
Ser	Met	Thr	Gly	Leu	Ala	Leu	Lys	His	Met	Phe	Glu	Arg	Ser	Phe
				695					700					705
Thr	Gln	Gly	Glu	Gly	Ala	Arg	Pro	Leu	Ser	Thr	Arg	Val	Pro	Arg
				710					715					720
Ala	Ala	Ile	Val	Phe	Thr	Asp	Gly	Arg	Ala	Gln	Asp	Asp	Val	Ser
				725					730					735
Glu	Trp	Ala	Ser	Lys	Ala	Lys	Ala	Asn	Gly	Ile	Thr	Met	Tyr	Ala
				740					745					750
Val	Gly	Val	Gly	Lys	Ala	Ile	Glu	Glu	Glu	Leu	Gln	Glu	Ile	Ala
				755					760					765
Ser	Glu	Pro	Thr	Asn	Lys	His	Leu	Phe	Tyr	Ala	Glu	Asp	Phe	Ser
				770					775					780
Thr	Met	Asp	Glu	Ile	Ser	Glu	Lys	Leu	Lys	Lys	Gly	Ile	Cys	Glu
				785					790					795
Ala	Leu	Glu	Asp	Ser	Asp	Gly	Arg	Gln	Asp	Ser	Pro	Ala	Gly	Glu
				800					805					810
Leu	Pro	Lys	Thr	Val	Gln	Gln	Pro	Thr	Glu	Ser	Glu	Pro	Val	Thr
				815					820					825
Ile	Asn	Ile	Gln	Asp	Leu	Leu	Ser	Cys	Ser	Asn	Phe	Ala	Val	Gln
				830					835					840
His	Arg	Tyr	Leu	Phe	Glu	Glu	Asp	Asn	Leu	Leu	Arg	Ser	Thr	Gln
				845					850					855

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Lys Leu Ser His Ser Thr Lys Pro Ser Gly Ser Pro Leu Glu Glu
860 865 870

Lys His Asp Gln Cys Lys Cys Glu Asn Leu Ile Met Phe Gln Asn
875 880 885

Leu Ala Asn Glu Glu Val Arg Lys Leu Thr Gln Arg Leu Glu Glu
890 895 900

Met Thr Gln Arg Met Glu Ala Leu Glu Asn Arg Leu Arg Tyr Arg
905 910 915

<210> 35

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 35

gtgaccctgg ttgtgaatac tcc 23

<210> 36

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 36

acagccatgg tctatagctt gg 22

<210> 37

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 37

gcctgtcagt gtcctgaggg acacgtgctc cgcagc gatg ggaag 45

<210> 38

<211> 1813

<212> DNA

<213> Homo Sapien

<400> 38

ggagccgccc tgggtgtcag cggctcggct cccgcgcacg ctccggccgt 50

cgcgcagcct cggcacctgc aggtccgtgc gtcccgcggc tggcgcccct 100

gactccgtcc cggccagggg gggccatgat ttccctcccg gggcccctgg 150

tgaccaactt gctgcggttt ttgttcctgg ggctgagtgc cctcgcgccc 200

ccctcgcggg cccagctgca actgcacttg cccgccaacc ggttgcaggc 250

ggtggagggg ggggaagtgg tgcttcacg gtggtacacc ttgcacgggg 300

P1618P2C3.txt

aggtgtcttc atcccagcca tgggaggtgc cttttgtgat gtggttcttc 350
 aaacagaaaag aaaaggagga tcaggtgttg tcctacatca atggggtcac 400
 aacaagcaaa cctggagtat ccttgggtcta ctccatgccc tcccgaacc 450
 tgtccctgcg gctggagggt ctccaggaga aagactctgg cccctacagc 500
 tgctccgtga atgtgcaaga caaacaaggc aaatctaggg gccacagcat 550
 caaaacctta gaactcaatg tactggttcc tccagctcct ccattcctgcc 600
 gtctccaggg tgtgccccat gtgggggcaa acgtgaccct gagctgccag 650
 tctccaagga gtaagcccg tgtccaatac cagtgggatc ggcagcttcc 700
 atccttccag actttctttg caccagcatt agatgtcatc cgtgggtctt 750
 taagcctcac caacctttcg tcttccatgg ctggagtcta tgtctgcaag 800
 gccacaaatg aggtgggcac tgcccaatgt aatgtgacgc tggaagttag 850
 cacagggcct ggagctgcag tggttgctgg agctgttggt ggtaccctgg 900
 ttggactggg gttgctggct gggctggtcc tcttgtagca ccgccggggc 950
 aaggccctgg aggagccagc caatgatatc aaggaggatg ccattgctcc 1000
 ccggaccctg ccctggccca agagctcaga cacaatctcc aagaatggga 1050
 ccctttcttc tgtcacctcc gcacgagccc tccggccacc ccattggcct 1100
 cccaggcctg gtgcattgac cccacgccc agtctctcca gccaggccct 1150
 gccctcacca agactgccc cgacagatgg gggccaccct caaccaatat 1200
 ccccatccc tgggtggggt tcttctctctg gcttgagccg catgggtgct 1250
 gtgcctgtga tgggtgcctgc ccagagtcaa gctggctctc tggatatgat 1300
 accccaccac tcattggcta aaggatttgg ggtctctcct tcctataagg 1350
 gtcacctcta gcacagaggc ctgagtcatt ggaaagagtc acactcctga 1400
 cccttagtac tctgccccca cctctcttta ctgtgggaaa accatctcag 1450
 taagacctaa gtgtccagga gacagaagga gaagaggaag tggatctgga 1500
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 ctgaaattag ctactcacca agagtgggg gcagagactt ccagtcactg 1600
 agtctcccag gcccccttga tctgtacccc acccctatct aacaccacc 1650
 ttggctccca ctccagctcc ctgtattgat ataacctgtc aggctggctt 1700
 ggttaggttt tactggggca gaggataggg aatctcttat taaaactaac 1750
 atgaaatatg tgttgttttc atttgcaaat ttaaataaag atacataatg 1800
 tttgtatgaa aaa 1813

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<211> 390
<212> PRT
<213> Homo Sapien

<400> 39

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Leu	Phe	Leu	Gly	Leu	Ser	Ala	Leu	Ala	Pro	Pro	Ser	Arg	Ala	Gln
				20					25					30
Leu	Gln	Leu	His	Leu	Pro	Ala	Asn	Arg	Leu	Gln	Ala	Val	Glu	Gly
				35					40					45
Gly	Glu	Val	Val	Leu	Pro	Ala	Trp	Tyr	Thr	Leu	His	Gly	Glu	Val
				50					55					60
Ser	Ser	Ser	Gln	Pro	Trp	Glu	Val	Pro	Phe	Val	Met	Trp	Phe	Phe
				65					70					75
Lys	Gln	Lys	Glu	Lys	Glu	Asp	Gln	Val	Leu	Ser	Tyr	Ile	Asn	Gly
				80					85					90
Val	Thr	Thr	Ser	Lys	Pro	Gly	Val	Ser	Leu	Val	Tyr	Ser	Met	Pro
				95					100					105
Ser	Arg	Asn	Leu	Ser	Leu	Arg	Leu	Glu	Gly	Leu	Gln	Glu	Lys	Asp
				110					115					120
Ser	Gly	Pro	Tyr	Ser	Cys	Ser	Val	Asn	Val	Gln	Asp	Lys	Gln	Gly
				125					130					135
Lys	Ser	Arg	Gly	His	Ser	Ile	Lys	Thr	Leu	Glu	Leu	Asn	Val	Leu
				140					145					150
Val	Pro	Pro	Ala	Pro	Pro	Ser	Cys	Arg	Leu	Gln	Gly	Val	Pro	His
				155					160					165
Val	Gly	Ala	Asn	Val	Thr	Leu	Ser	Cys	Gln	Ser	Pro	Arg	Ser	Lys
				170					175					180
Pro	Ala	Val	Gln	Tyr	Gln	Trp	Asp	Arg	Gln	Leu	Pro	Ser	Phe	Gln
				185					190					195
Thr	Phe	Phe	Ala	Pro	Ala	Leu	Asp	Val	Ile	Arg	Gly	Ser	Leu	Ser
				200					205					210
Leu	Thr	Asn	Leu	Ser	Ser	Ser	Met	Ala	Gly	Val	Tyr	Val	Cys	Lys
				215					220					225
Ala	His	Asn	Glu	Val	Gly	Thr	Ala	Gln	Cys	Asn	Val	Thr	Leu	Glu
				230					235					240
Val	Ser	Thr	Gly	Pro	Gly	Ala	Ala	Val	Val	Ala	Gly	Ala	Val	Val
				245					250					255
Gly	Thr	Leu	Val	Gly	Leu	Gly	Leu	Leu	Ala	Gly	Leu	Val	Leu	Leu
				260					265					270
Tyr	His	Arg	Arg	Gly	Lys	Ala	Leu	Glu	Glu	Pro	Ala	Asn	Asp	Ile
				275					280					285
Lys	Glu	Asp	Ala	Ile	Ala	Pro	Arg	Thr	Leu	Pro	Trp	Pro	Lys	Ser

290	295	300
Ser Asp Thr Ile	Ser Lys Asn Gly Thr	Leu Ser Ser Val Thr Ser
305	310	315
Ala Arg Ala Leu	Arg Pro Pro His Gly	Pro Pro Arg Pro Gly Ala
320	325	330
Leu Thr Pro Thr	Pro Ser Leu Ser Ser	Gln Ala Leu Pro Ser Pro
335	340	345
Arg Leu Pro Thr	Thr Asp Gly Ala His	Pro Gln Pro Ile Ser Pro
350	355	360
Ile Pro Gly Gly	Val Ser Ser Ser Gly	Leu Ser Arg Met Gly Ala
365	370	375
Val Pro Val Met	Val Pro Ala Gln Ser	Gln Ala Gly Ser Leu Val
380	385	390

<210> 40
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 40
 aggtctcca ggagaaagac tc 22

<210> 41
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 41
 attgtgggcc ttgcagacat agac 24

<210> 42
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 42
 ggccacagca tcaaaacctt agaactcaat gtactgggtc ctccagctcc 50

<210> 43
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 43
 gtgtgacaca gcgtgggc 18

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<210> 44
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 44
 gaccggcagg cttctgcg 18

<210> 45
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 45
 cagcagcttc agccaccagg agtgg 25

<210> 46
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 46
 ctgagccgtg ggctgcagtc tcgc 24

<210> 47
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 47
 ccgactacga ctggttcttc atcatgcagg atgacacata tgtgc 45

<210> 48
 <211> 2822
 <212> DNA
 <213> Homo Sapien

<400> 48
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 ttttccactt tgttgaattg ttcctatact caaaattgca ccaagacacc 100
 ttgtctccca aatgcaaaat gtgaaatacg caatggaatt gaagcctgct 150
 attgcaacat gggattttca ggaaatgggtg tcacaatttg tgaagatgat 200
 aatgaatgtg gaaatttaac tcagtcctgt ggcgaaaatg ctaattgcac 250
 taacacagaa ggaagttatt attgtatgtg tgtacctggc ttcagatcca 300

P1618P2C3.txt

gcagtaacca agacaggttt atcactaatg atggaaccgt ctgtatagaa 350
aatgtgaatg caaactgcca tttagataat gtctgtatag ctgcaaatat 400
taataaaact ttaacaaaaa tcagatccat aaaagaacct gtggctttgc 450
tacaagaagt ctatagaaat tctgtgacag atctttcacc aacagatata 500
attacatata tagaaatatt agctgaatca tcttcattac taggttacia 550
gaacaacact atctcagcca aggacaccct ttctaactca actcttactg 600
aatttgtaaa aaccgtgaat aattttgttc aaagggatac atttgtagtt 650
tgggacaagt tatctgtgaa tcataggaga acacatctta caaaactcat 700
gcacactgtt gaacaagcta ctttaaggat atcccagagc ttccaaaaga 750
ccacagagtt tgatacaaat tcaacggata tagctctcaa agttttcttt 800
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agactacata aatatatttc caaagagaaa agctgcatat gattcaaatg 900
gcaatgttgc agttgcattt ttatattata agagtattgg tcctttgctt 950
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ttgccggact gctacactac ttctttttag ctgcttttgc atggatgtgc 1550
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aaagtatggt ggcttagcac cgaaaacaac tttatttgga gttttatagg 1750
accagcatgc ctaatcattc ttgttaatct cttggccttt ggagtcacac 1800
tatacaaagt ttttcgtcac actgcagggt tgaaaccaga agttagtgc 1850
tttgagaaca taaggctctg tgcaagagga gccctcgctc ttctgttcct 1900

P1618P2C3.txt

tctcggcacc acctggatct ttgggggttct ccatgttggtg cacgcatcag 1950
 tggttacagc ttacctcttc acagtcagca atgctttcca ggggatgttc 2000
 atttttttat tcctgtgtgt tttatctaga aagattcaag aagaatatta 2050
 cagattgttc aaaaatgtcc cctgttggtt ttgatgttta aggtaaacat 2100
 agagaatggt ggataattac aactgcacaa aaataaaaat tccaagctgt 2150
 ggatgaccaa tgtataaaaa tgactcatca aattatccaa ttattaacta 2200
 ctagacaaaa agtattttta atcagttttt ctgtttatgc tataggaact 2250
 gtagataata aggtaaaatt atgtatcata tagatatact atgtttttct 2300
 atgtgaaata gttctgtcaa aaatagtatt gcagatattt ggaaagtaat 2350
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 tgtgactcgt gttgcctttg aaactagtcc cctaccacct cggtaatgag 2500
 ctccattaca gaaagtggaa cataagagaa tgaaggggca gaatatcaaa 2550
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 agactagctg agaaattggt gacataaaat aaagaattga agaaacacat 2650
 tttaccattt tgtgaattgt tctgaactta aatgtccact aaaacaactt 2700
 agacttctgt ttgctaaatc tgtttctttt tctaataattc taaaaaaaaa 2750
 aaaaaggttt acctccacaa attgaaaaaa aaaaaaaaaa aaaaaaaaaa 2800
 aaaaaaaaaa aaaaaaaaaa aa 2822

<210> 49
 <211> 690
 <212> PRT
 <213> Homo Sapien

<400> 49
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 Cys Ser Tyr Thr Gln Asn Cys Thr Lys Thr Pro Cys Leu Pro Asn
 20 25 30
 Ala Lys Cys Glu Ile Arg Asn Gly Ile Glu Ala Cys Tyr Cys Asn
 35 40 45
 Met Gly Phe Ser Gly Asn Gly Val Thr Ile Cys Glu Asp Asp Asn
 50 55 60
 Glu Cys Gly Asn Leu Thr Gln Ser Cys Gly Glu Asn Ala Asn Cys
 65 70 75
 Thr Asn Thr Glu Gly Ser Tyr Tyr Cys Met Cys Val Pro Gly Phe
 80 85 90

P1618P2C3.txt

Arg	Ser	Ser	Ser	Asn	Gln	Asp	Arg	Phe	Ile	Thr	Asn	Asp	Gly	Thr
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Val	Cys	Ile	Glu	Asn	Val	Asn	Ala	Asn	Cys	His	Leu	Asp	Asn	Val
				110					115					120
Cys	Ile	Ala	Ala	Asn	Ile	Asn	Lys	Thr	Leu	Thr	Lys	Ile	Arg	Ser
				125					130					135
Ile	Lys	Glu	Pro	Val	Ala	Leu	Leu	Gln	Glu	Val	Tyr	Arg	Asn	Ser
				140					145					150
Val	Thr	Asp	Leu	Ser	Pro	Thr	Asp	Ile	Ile	Thr	Tyr	Ile	Glu	Ile
				155					160					165
Leu	Ala	Glu	Ser	Ser	Ser	Leu	Leu	Gly	Tyr	Lys	Asn	Asn	Thr	Ile
				170					175					180
Ser	Ala	Lys	Asp	Thr	Leu	Ser	Asn	Ser	Thr	Leu	Thr	Glu	Phe	Val
				185					190					195
Lys	Thr	Val	Asn	Asn	Phe	Val	Gln	Arg	Asp	Thr	Phe	Val	Val	Trp
				200					205					210
Asp	Lys	Leu	Ser	Val	Asn	His	Arg	Arg	Thr	His	Leu	Thr	Lys	Leu
				215					220					225
Met	His	Thr	Val	Glu	Gln	Ala	Thr	Leu	Arg	Ile	Ser	Gln	Ser	Phe
				230					235					240
Gln	Lys	Thr	Thr	Glu	Phe	Asp	Thr	Asn	Ser	Thr	Asp	Ile	Ala	Leu
				245					250					255
Lys	Val	Phe	Phe	Phe	Asp	Ser	Tyr	Asn	Met	Lys	His	Ile	His	Pro
				260					265					270
His	Met	Asn	Met	Asp	Gly	Asp	Tyr	Ile	Asn	Ile	Phe	Pro	Lys	Arg
				275					280					285
Lys	Ala	Ala	Tyr	Asp	Ser	Asn	Gly	Asn	Val	Ala	Val	Ala	Phe	Leu
				290					295					300
Tyr	Tyr	Lys	Ser	Ile	Gly	Pro	Leu	Leu	Ser	Ser	Ser	Asp	Asn	Phe
				305					310					315
Leu	Leu	Lys	Pro	Gln	Asn	Tyr	Asp	Asn	Ser	Glu	Glu	Glu	Glu	Arg
				320					325					330
Val	Ile	Ser	Ser	Val	Ile	Ser	Val	Ser	Met	Ser	Ser	Asn	Pro	Pro
				335					340					345
Thr	Leu	Tyr	Glu	Leu	Glu	Lys	Ile	Thr	Phe	Thr	Leu	Ser	His	Arg
				350					355					360
Lys	Val	Thr	Asp	Arg	Tyr	Arg	Ser	Leu	Cys	Ala	Phe	Trp	Asn	Tyr
				365					370					375
Ser	Pro	Asp	Thr	Met	Asn	Gly	Ser	Trp	Ser	Ser	Glu	Gly	Cys	Glu
				380					385					390
Leu	Thr	Tyr	Ser	Asn	Glu	Thr	His	Thr	Ser	Cys	Arg	Cys	Asn	His
				395					400					405

P1618P2C3.txt

Leu Thr His Phe	Ala Ile Leu Met Ser	Ser Gly Pro Ser Ile	Gly
	410	415	420
Ile Lys Asp Tyr	Asn Ile Leu Thr Arg	Ile Thr Gln Leu Gly	Ile
	425	430	435
Ile Ile Ser Leu	Ile Cys Leu Ala Ile	Cys Ile Phe Thr Phe	Trp
	440	445	450
Phe Phe Ser Glu	Ile Gln Ser Thr Arg	Thr Thr Ile His Lys	Asn
	455	460	465
Leu Cys Cys Ser	Leu Phe Leu Ala Glu	Leu Val Phe Leu Val	Gly
	470	475	480
Ile Asn Thr Asn	Thr Asn Lys Leu Phe	Cys Ser Ile Ile Ala	Gly
	485	490	495
Leu Leu His Tyr	Phe Phe Leu Ala Ala	Phe Ala Trp Met Cys	Ile
	500	505	510
Glu Gly Ile His	Leu Tyr Leu Ile Val	Val Gly Val Ile Tyr	Asn
	515	520	525
Lys Gly Phe Leu	His Lys Asn Phe Tyr	Ile Phe Gly Tyr Leu	Ser
	530	535	540
Pro Ala Val Val	Val Gly Phe Ser Ala	Ala Leu Gly Tyr Arg	Tyr
	545	550	555
Tyr Gly Thr Thr	Lys Val Cys Trp Leu	Ser Thr Glu Asn Asn	Phe
	560	565	570
Ile Trp Ser Phe	Ile Gly Pro Ala Cys	Leu Ile Ile Leu Val	Asn
	575	580	585
Leu Leu Ala Phe	Gly Val Ile Ile Tyr	Lys Val Phe Arg His	Thr
	590	595	600
Ala Gly Leu Lys	Pro Glu Val Ser Cys	Phe Glu Asn Ile Arg	Ser
	605	610	615
Cys Ala Arg Gly	Ala Leu Ala Leu Leu	Phe Leu Leu Gly Thr	Thr
	620	625	630
Trp Ile Phe Gly	Val Leu His Val Val	His Ala Ser Val Val	Thr
	635	640	645
Ala Tyr Leu Phe	Thr Val Ser Asn Ala	Phe Gln Gly Met Phe	Ile
	650	655	660
Phe Leu Phe Leu	Cys Val Leu Ser Arg	Lys Ile Gln Glu Glu	Tyr
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	680	685	690

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P1618P2C3.txt

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aacttcttat tgaaacctca aaattatgat aattctgaag aggaggaaag 200
agtcatatct tcagtaattt cagtctcaat gagctcaaac ccaccacat 250
tatatgaact tgaaaaaata acatttacat taagtcatcg aaaggtcaca 300
gataggata ggagtctatg tggcattttg gaatactcac ctgataccat 350
gaatggcagc tggctctcag agggctgtga gctgacatac tcaaatgaga 400
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tcctctggtc cttccattgg tattaaagat tataatattc ttacaaggat 500
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<400> 52
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<210> 53
<211> 22
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<210> 54

P1618P2C3.txt

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<211> 18
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<400> 55
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<210> 56
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<400> 56
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<213> Homo Sapien

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P1618P2C3.txt

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 aaaaatcagg aaaagaaaag atttgaagac cccaagtctt gtcaataact 1950

P1618P2C3.txt

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 gaggtttgtt ttgtatatta aaatggagtt tgtttgt 2137

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 <213> Homo Sapien

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 Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
 35 40 45
 His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
 50 55 60
 Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
 65 70 75
 Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
 80 85 90
 Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
 95 100 105
 Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
 110 115 120
 Ala Phe Glu Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
 125 130 135
 Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
 140 145 150
 Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
 155 160 165
 Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg
 170 175 180
 Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp
 185 190 195
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 200 205 210
 Ser Pro Ser Phe Glu Lys
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<210> 60
 <211> 26
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

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<210> 61

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 61

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<210> 62

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 62

ccagtccggg gacaagccca aa 22

<210> 63

<211> 1295

<212> DNA

<213> Homo Sapien

<400> 63

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P1618P2C3.txt

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 <213> Homo Sapien

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 Ala Pro Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu
 35 40 45
 Ala Ile Leu Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg
 50 55 60
 Leu Glu Trp Lys Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr
 65 70 75
 Gln Gln Thr Leu Gln Gly Asp Phe Lys Asn Arg Ala Glu Met Ile
 80 85 90
 Asp Phe Asn Ile Arg Ile Lys Asn Val Thr Arg Ser Asp Ala Gly
 95 100 105
 Lys Tyr Arg Cys Glu Val Ser Ala Pro Ser Glu Gln Gly Gln Asn
 110 115 120
 Leu Glu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro Ala
 125 130 135
 Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
 140 145 150
 Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu
 155 160 165

P1618P2C3.txt

Tyr	Thr	Trp	Phe	Lys	Asp	Gly	Ile	Arg	Leu	Leu	Glu	Asn	Pro	Arg
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Thr	Gly	Thr	Leu	Gln	Phe	Asn	Thr	Val	Ser	Lys	Leu	Asp	Thr	Gly
				200					205					210
Glu	Tyr	Ser	Cys	Glu	Ala	Arg	Asn	Ser	Val	Gly	Tyr	Arg	Arg	Cys
				215					220					225
Pro	Gly	Lys	Arg	Met	Gln	Val	Asp	Asp	Leu	Asn	Ile	Ser	Gly	Ile
				230					235					240
Ile	Ala	Ala	Val	Val	Val	Val	Ala	Leu	Val	Ile	Ser	Val	Cys	Gly
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Leu	Gly	Val	Cys	Tyr	Ala	Gln	Arg	Lys	Gly	Tyr	Phe	Ser	Lys	Glu
				260					265					270
Thr	Ser	Phe	Gln	Lys	Ser	Asn	Ser	Ser	Ser	Lys	Ala	Thr	Thr	Met
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Ser	Glu	Asn	Val	Gln	Trp	Leu	Thr	Pro	Val	Ile	Pro	Ala	Leu	Trp
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<223> Synthetic Oligonucleotide Probe

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<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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<210> 67

<211> 48

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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P1618P2C3.txt

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P1618P2C3.txt

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20 25 30

Arg Leu Cys Thr Cys Glu Ile Arg Pro Trp Phe Thr Pro Arg Ser
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35

40

45

Ile Tyr Met Glu Ala Ser Thr Val Asp Cys Asn Asp Leu Gly Leu
 50 55 60
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 65 70 75
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 Ser Lys Trp Phe Asp Ala Leu Pro Asn Leu Glu Ile Leu Met Ile
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 230 235 240
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 Asp Ser Leu Ala Val Asp Asn Leu Pro Asp Leu Arg Lys Ile Glu
 305 310 315
 Ala Thr Asn Asn Pro Arg Leu Ser Tyr Ile His Pro Asn Ala Phe
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 Phe Arg Leu Pro Lys Leu Glu Ser Leu Met Leu Asn Ser Asn Ala
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P1618P2C3.txt

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Pro Leu Ile Ala Pro Glu Ser Phe Pro Ser Asn Leu Asn Val Glu	425	435
Ala Gly Ser Tyr Val Ser Phe His Cys Arg Ala Thr Ala Glu Pro	440	450
Gln Pro Glu Ile Tyr Trp Ile Thr Pro Ser Gly Gln Lys Leu Leu	455	465
Pro Asn Thr Leu Thr Asp Lys Phe Tyr Val His Ser Glu Gly Thr	470	480
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Cys Ile Ala Thr Asn Leu Val Gly Ala Asp Leu Lys Ser Val Met	500	510
Ile Lys Val Asp Gly Ser Phe Pro Gln Asp Asn Asn Gly Ser Leu	515	525
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Trp Lys Ala Ser Ser Lys Ile Leu Lys Ser Ser Val Lys Trp Thr	545	555
Ala Phe Val Lys Thr Glu Asn Ser His Ala Ala Gln Ser Ala Arg	560	570
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Ser Thr Glu Tyr Lys Ile Cys Ile Asp Ile Pro Thr Ile Tyr Gln	590	600
Lys Asn Arg Lys Lys Cys Val Asn Val Thr Thr Lys Gly Leu His	605	615
Pro Asp Gln Lys Glu Tyr Glu Lys Asn Asn Thr Thr Thr Leu Met	620	630
Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile Gly Val Ile Cys Leu	635	645
Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp Gly Gly His Ser	650	660
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665 675
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tccgtgttgg atgaacatgc tggcagacca ttcctcaatg ctgccaacga 750
cgctgacctt tgtaacctcc ctaaaaaaac taccgattat gccatgctgg 800
tcaccatgtt tggctgggtc actatggtga tctcatatgt ggtatattat 850
gtgaggcaaa atcaggagga tgcccggaga cacctcgaat acttgaaatc 900
cctgccaagc aggcagaaga aagcagatga acctgatgat attagcactg 950
tgggtatagtg tccaaactga ctgtcattga gaaagaaaga aagtagtttg 1000
cgattgcagt agaaataagt ggtttacttc tcccatccat tgtaaacatt 1050
tgaaactttg tatttcagtt ttttttgaat tatgccactg ctgaactttt 1100
aacaacact acaacataaa taatttgagt ttaggtgatc cacccttaa 1150

P1618P2C3.txt

ttgtaccccc gatggtatat ttctgagtaa gctactatct gaacattagt 1200
tagatccatc tcactattta ataatgaaat ttattttttt aatttaaaag 1250
caaataaaaag cttaactttg aaccatggga aaaaaaaaaa aaaaaaaaaa 1300
aaaca 1305

<210> 71
<211> 259
<212> PRT
<213> Homo Sapien

<400> 71
Met Asn Leu Val Asp Leu Trp Leu Thr Arg Ser Leu Ser Met Cys
1 5 10 15
Leu Leu Leu Gln Ser Phe Val Leu Met Ile Leu Cys Phe His Ser
20 25 30
Ala Ser Met Cys Pro Lys Gly Cys Leu Cys Ser Ser Ser Gly Gly
35 40 45
Leu Asn Val Thr Cys Ser Asn Ala Asn Leu Lys Glu Ile Pro Arg
50 55 60
Asp Leu Pro Pro Glu Thr Val Leu Leu Tyr Leu Asp Ser Asn Gln
65 70 75
Ile Thr Ser Ile Pro Asn Glu Ile Phe Lys Asp Leu His Gln Leu
80 85 90
Arg Val Leu Asn Leu Ser Lys Asn Gly Ile Glu Phe Ile Asp Glu
95 100 105
His Ala Phe Lys Gly Val Ala Glu Thr Leu Gln Thr Leu Asp Leu
110 115 120
Ser Asp Asn Arg Ile Gln Ser Val His Lys Asn Ala Phe Asn Asn
125 130 135
Leu Lys Ala Arg Ala Arg Ile Ala Asn Asn Pro Trp His Cys Asp
140 145 150
Cys Thr Leu Gln Gln Val Leu Arg Ser Met Ala Ser Asn His Glu
155 160 165
Thr Ala His Asn Val Ile Cys Lys Thr Ser Val Leu Asp Glu His
170 175 180
Ala Gly Arg Pro Phe Leu Asn Ala Ala Asn Asp Ala Asp Leu Cys
185 190 195
Asn Leu Pro Lys Lys Thr Thr Asp Tyr Ala Met Leu Val Thr Met
200 205 210
Phe Gly Trp Phe Thr Met Val Ile Ser Tyr Val Val Tyr Tyr Val
215 220 225
Arg Gln Asn Gln Glu Asp Ala Arg Arg His Leu Glu Tyr Leu Lys
230 235 240
Ser Leu Pro Ser Arg Gln Lys Lys Ala Asp Glu Pro Asp Asp Ile

245

P1618P2C3.txt
250

255

Ser Thr Val Val

<210> 72
<211> 2290
<212> DNA
<213> Homo Sapien

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atgctggcgg ggggcgtgag gagcatgccc agccccctcc tggcctgctg 100
gcagcccatc ctctgctgg tgctgggctc agtgctgtca ggctcggcca 150
cgggctgccc gccccgctgc gagggtctccg cccaggaccg cgctgtgctg 200
tgccaccgca agtgctttgt ggcagtcctc gagggcatcc ccaccgagac 250
gcgcctgctg gacctaggca agaaccgcat caaaacgctc aaccaggacg 300
agttcgccag cttcccgac ctggaggagc tggagctcaa cgagaacatc 350
gtgagcgccg tggagccccg cgccttcaac aacctcttca acctccggac 400
gctgggtctc cgcagcaacc gcctgaagct catcccgtca ggcgtcttca 450
ctggcctcag caacctgacc aagcaggaca tcagcgagaa caagatcggt 500
atcctactgg actacatggt tcaggacctg tacaacctca agtcactgga 550
ggttggcgac aatgacctcg tctacatctc tcaccgcgcc ttcagcggcc 600
tcaacagcct ggagcagctg acgctggaga aatgcaacct gacctccatc 650
cccaccgagg cgctgtccca cctgcacggc ctcatcgctc tgaggctccg 700
gcacctcaac atcaatgcca tccgggacta ctcttcaag aggctgtacc 750
gactcaaggc cttggagatc tccactggc cctacttggg caccatgaca 800
cccaactgcc tctacggcct caacctgacg tccctgtcca tcacacactg 850
caatctgacc gctgtgccct acctggccgt ccgccaccta gtctatctcc 900
gcttctcaa cctctctac aaccccatca gcaccattga gggctccatg 950
ttgcatgagc tgctccggct gcaggagatc cagctggtgg gcgggcagct 1000
ggccgtggtg gagccctatg cctcccgcg cctcaactac ctgcgcgtgc 1050
tcaatgtctc tggcaaccag ctgaccacac tggaggaatc agtcttccac 1100
tcggtgggca acctggagac actcatcctg gactccaacc cgctggcctg 1150
cgactgtcgg ctctgtggg tgttccggcg ccgctggcgg ctcaacttca 1200
accggcagca gccacgtgc gccacgccc agtttgtcca gggcaaggag 1250
ttcaaggact tccctgatgt gctactgccc aactacttca cctgccgccg 1300

P1618P2C3.txt

cgcccgcatc cgggaccgca aggccagca ggtgtttgtg gacgagggcc 1350
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 ctctggctct caccgccaaa gcacctggtc tcagccaaga gcaatgggcg 1450
 gctcacagtc ttccctgatg gcacgctgga ggtgcgtac gccaggtac 1500
 aggacaacgg cacgtacctg tgcctgcgg ccaacgcggg cggcaacgac 1550
 tccatgcccg cccacctgca tgtgcgcagc tactcgcccg actggcccca 1600
 tcagcccaac aagaccttcg ctttcatctc caaccagccg ggcgagggag 1650
 aggccaacag caccgcgcc actgtgcctt tccccttcga catcaagacc 1700
 ctcatcatcg ccaccacatc gggcttcac tcttctctgg gcgtcgtcct 1750
 cttctgcctg gtgctgctgt ttctctggag ccggggcaag ggcaacacaa 1800
 agcacaacat cgagatcgag tatgtgcccc gaaagtcgga cgcaggcatc 1850
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 gggcgggggg cagggacccc cgggcggcgg ggcaggggaa ggggcctggt 1950
 cgccacctgc tcaacttcca gtccttccca cctcctccct acccttctac 2000
 acacgttctc tttctccctc ccgcctccgt cccctgctgc ccccgccag 2050
 ccctcaccac ctgcccctct tctaccagga cctcagaagc ccagacctgg 2100
 ggacccacc tacacagggg cattgacaga ctggagtga aagccgacga 2150
 accgacacgc ggcagagtca ataattcaat aaaaaagtta cgaactttct 2200
 ctgtaacttg ggtttcaata attatggatt tttatgaaaa cttgaaataa 2250
 taaaaagaga aaaaaactaa aaaaaaaaaa aaaaaaaaaa 2290

<210> 73
 <211> 620
 <212> PRT
 <213> Homo Sapien

<400> 73
 Met Gln Val Ser Lys Arg Met Leu Ala Gly Gly Val Arg Ser Met
 1 5 10 15
 Pro Ser Pro Leu Leu Ala Cys Trp Gln Pro Ile Leu Leu Leu Val
 20 25 30
 Leu Gly Ser Val Leu Ser Gly Ser Ala Thr Gly Cys Pro Pro Arg
 35 40 45
 Cys Glu Cys Ser Ala Gln Asp Arg Ala Val Leu Cys His Arg Lys
 50 55 60
 Cys Phe Val Ala Val Pro Glu Gly Ile Pro Thr Glu Thr Arg Leu
 65 70 75
 Leu Asp Leu Gly Lys Asn Arg Ile Lys Thr Leu Asn Gln Asp Glu
 80 85 90

P1618P2C3.txt

Phe	Ala	Ser	Phe	Pro	His	Leu	Glu	Glu	Leu	Glu	Leu	Asn	Glu	Asn	95	100	105
Ile	Val	Ser	Ala	Val	Glu	Pro	Gly	Ala	Phe	Asn	Asn	Leu	Phe	Asn	110	115	120
Leu	Arg	Thr	Leu	Gly	Leu	Arg	Ser	Asn	Arg	Leu	Lys	Leu	Ile	Pro	125	130	135
Leu	Gly	Val	Phe	Thr	Gly	Leu	Ser	Asn	Leu	Thr	Lys	Gln	Asp	Ile	140	145	150
Ser	Glu	Asn	Lys	Ile	Val	Ile	Leu	Leu	Asp	Tyr	Met	Phe	Gln	Asp	155	160	165
Leu	Tyr	Asn	Leu	Lys	Ser	Leu	Glu	Val	Gly	Asp	Asn	Asp	Leu	Val	170	175	180
Tyr	Ile	Ser	His	Arg	Ala	Phe	Ser	Gly	Leu	Asn	Ser	Leu	Glu	Gln	185	190	195
Leu	Thr	Leu	Glu	Lys	Cys	Asn	Leu	Thr	Ser	Ile	Pro	Thr	Glu	Ala	200	205	210
Leu	Ser	His	Leu	His	Gly	Leu	Ile	Val	Leu	Arg	Leu	Arg	His	Leu	215	220	225
Asn	Ile	Asn	Ala	Ile	Arg	Asp	Tyr	Ser	Phe	Lys	Arg	Leu	Tyr	Arg	230	235	240
Leu	Lys	Val	Leu	Glu	Ile	Ser	His	Trp	Pro	Tyr	Leu	Asp	Thr	Met	245	250	255
Thr	Pro	Asn	Cys	Leu	Tyr	Gly	Leu	Asn	Leu	Thr	Ser	Leu	Ser	Ile	260	265	270
Thr	His	Cys	Asn	Leu	Thr	Ala	Val	Pro	Tyr	Leu	Ala	Val	Arg	His	275	280	285
Leu	Val	Tyr	Leu	Arg	Phe	Leu	Asn	Leu	Ser	Tyr	Asn	Pro	Ile	Ser	290	295	300
Thr	Ile	Glu	Gly	Ser	Met	Leu	His	Glu	Leu	Leu	Arg	Leu	Gln	Glu	305	310	315
Ile	Gln	Leu	Val	Gly	Gly	Gln	Leu	Ala	Val	Val	Glu	Pro	Tyr	Ala	320	325	330
Phe	Arg	Gly	Leu	Asn	Tyr	Leu	Arg	Val	Leu	Asn	Val	Ser	Gly	Asn	335	340	345
Gln	Leu	Thr	Thr	Leu	Glu	Glu	Ser	Val	Phe	His	Ser	Val	Gly	Asn	350	355	360
Leu	Glu	Thr	Leu	Ile	Leu	Asp	Ser	Asn	Pro	Leu	Ala	Cys	Asp	Cys	365	370	375
Arg	Leu	Leu	Trp	Val	Phe	Arg	Arg	Arg	Trp	Arg	Leu	Asn	Phe	Asn	380	385	390
Arg	Gln	Gln	Pro	Thr	Cys	Ala	Thr	Pro	Glu	Phe	Val	Gln	Gly	Lys	395	400	405

P1618P2C3.txt

Glu	Phe	Lys	Asp	Phe	Pro	Asp	Val	Leu	Leu	Pro	Asn	Tyr	Phe	Thr	410	415	420
Cys	Arg	Arg	Ala	Arg	Ile	Arg	Asp	Arg	Lys	Ala	Gln	Gln	Val	Phe	425	430	435
Val	Asp	Glu	Gly	His	Thr	Val	Gln	Phe	Val	Cys	Arg	Ala	Asp	Gly	440	445	450
Asp	Pro	Pro	Pro	Ala	Ile	Leu	Trp	Leu	Ser	Pro	Arg	Lys	His	Leu	455	460	465
Val	Ser	Ala	Lys	Ser	Asn	Gly	Arg	Leu	Thr	Val	Phe	Pro	Asp	Gly	470	475	480
Thr	Leu	Glu	Val	Arg	Tyr	Ala	Gln	Val	Gln	Asp	Asn	Gly	Thr	Tyr	485	490	495
Leu	Cys	Ile	Ala	Ala	Asn	Ala	Gly	Gly	Asn	Asp	Ser	Met	Pro	Ala	500	505	510
His	Leu	His	Val	Arg	Ser	Tyr	Ser	Pro	Asp	Trp	Pro	His	Gln	Pro	515	520	525
Asn	Lys	Thr	Phe	Ala	Phe	Ile	Ser	Asn	Gln	Pro	Gly	Glu	Gly	Glu	530	535	540
Ala	Asn	Ser	Thr	Arg	Ala	Thr	Val	Pro	Phe	Pro	Phe	Asp	Ile	Lys	545	550	555
Thr	Leu	Ile	Ile	Ala	Thr	Thr	Met	Gly	Phe	Ile	Ser	Phe	Leu	Gly	560	565	570
Val	Val	Leu	Phe	Cys	Leu	Val	Leu	Leu	Phe	Leu	Trp	Ser	Arg	Gly	575	580	585
Lys	Gly	Asn	Thr	Lys	His	Asn	Ile	Glu	Ile	Glu	Tyr	Val	Pro	Arg	590	595	600
Lys	Ser	Asp	Ala	Gly	Ile	Ser	Ser	Ala	Asp	Ala	Pro	Arg	Lys	Phe	605	610	615
Asn	Met	Lys	Met	Ile											620		

<210> 74

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 74

tcacctggag cctttattgg cc 22

<210> 75

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 75

ataccagcta taaccaggct gcg 23

<210> 76

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 76

caacagtaag tggtttgatg ctcttccaaa tctagagatt ctgatgattg 50

gg 52

<210> 77

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 77

ccatgtgtct cctcctacaa ag 22

<210> 78

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 78

gggaatagat gtgatctgat tgg 23

<210> 79

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 79

cacctgtagc aatgcaaadc tcaaggaaat acctagagat cttcctcctg 50

<210> 80

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 80

agcaaccgcc tgaagctcat cc 22

<210> 81

P1618P2C3.txt

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 81
aaggcgcggt gaaagatgta gacg 24

<210> 82
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 82
gactacatgt ttcaggacct gtacaacctc aagtcactgg aggttggcga 50

<210> 83
<211> 1685
<212> DNA
<213> Homo Sapien

<400> 83
cccacgcgtc cgcacctcgg ccccgggctc cgaagcggct cgggggcgcc 50
ctttcgggtca acatcgtagt ccacccccctc cccatcccca gcccccgagg 100
attcaggctc gccagcgcgc agccagggag ccggccggga agcgcgatgg 150
gggccccagc cgcctcgtc ctgctcctgc tctgctgtt cgcctgctgc 200
tgggcgcccc gcggggccaa cctctccag gacgacagcc agccctggac 250
atctgatgaa acagtgggtg ctggtggcac cgtggtgctc aagtgccaa 300
tgaaagatca cgaggactca tccctgcaat ggtctaacc tgctcagcag 350
actctctact ttggggagaa gagagccctt cgagataatc gaattcagct 400
ggttacctct acgccccacg agctcagcat cagcatcagc aatgtggccc 450
tggcagacga gggcgagtac acctgtcaa tcttcactat gcctgtgcga 500
actgccaagt cctcgtcac tgtgctagga attccacaga agcccatcat 550
cactggttat aaatcttcat tacgggaaaa agacacagcc accctaaact 600
gtcagtcttc tgggagcaag cctgcagccc ggctcacctg gagaaagggt 650
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taaaaccttc actgtcagca gtcggtgac attccagggt acccgggagg 750
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gctgacagat ccacctctca acgcattgaa gttttataca caccaactgc 850
gatgattagg ccagaccctc cccatcctcg tgagggccag aagctgttgc 900

P1618P2C3.txt

tacactgtga gggtcgcggc aatccagatcc cccagcagta cctatgggag 950
aaggagggca gtgtgccacc cctgaagatg acccaggaga gtgccctgat 1000
cttccctttc ctcaacaaga gtgacagtgg cacctacggc tgcacagcca 1050
ccagcaacat gggcagctac aaggcctact acaccctcaa tgtaaatgac 1100
cccagtcgga tgccctctc ctccagcacc taccacgcca tcatcggtgg 1150
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cgggcagtca ggaggggacg acaagaagga atatttcac tagagggccc 1350
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ctggggtgag aaaagcaaaa aacaaacaaa aaaca 1685

<210> 84
<211> 398
<212> PRT
<213> Homo Sapien

<400> 84
Met Gly Ala Pro Ala Ala Ser Leu Leu Leu Leu Leu Phe
1 5 10 15
Ala Cys Cys Trp Ala Pro Gly Gly Ala Asn Leu Ser Gln Asp Asp
20 25 30
Ser Gln Pro Trp Thr Ser Asp Glu Thr Val Val Ala Gly Gly Thr
35 40 45
Val Val Leu Lys Cys Gln Val Lys Asp His Glu Asp Ser Ser Leu
50 55 60
Gln Trp Ser Asn Pro Ala Gln Gln Thr Leu Tyr Phe Gly Glu Lys
65 70 75
Arg Ala Leu Arg Asp Asn Arg Ile Gln Leu Val Thr Ser Thr Pro
80 85 90
His Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu
95 100 105
Gly Glu Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg Thr Ala
110 115 120
Lys Ser Leu Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile Ile

P1618P2C3.txt

	125	130	135
Thr Gly Tyr Lys	Ser Ser Leu Arg Glu	Lys Asp Thr Ala Thr	Leu
	140	145	150
Asn Cys Gln Ser	Ser Gly Ser Lys Pro	Ala Ala Arg Leu Thr	Trp
	155	160	165
Arg Lys Gly Asp	Gln Glu Leu His Gly	Glu Pro Thr Arg Ile	Gln
	170	175	180
Glu Asp Pro Asn	Gly Lys Thr Phe Thr	Val Ser Ser Ser Val	Thr
	185	190	195
Phe Gln Val Thr	Arg Glu Asp Asp Gly	Ala Ser Ile Val Cys	Ser
	200	205	210
Val Asn His Glu	Ser Leu Lys Gly Ala	Asp Arg Ser Thr Ser	Gln
	215	220	225
Arg Ile Glu Val	Leu Tyr Thr Pro Thr	Ala Met Ile Arg Pro	Asp
	230	235	240
Pro Pro His Pro	Arg Glu Gly Gln Lys	Leu Leu Leu His Cys	Glu
	245	250	255
Gly Arg Gly Asn	Pro Val Pro Gln Gln	Tyr Leu Trp Glu Lys	Glu
	260	265	270
Gly Ser Val Pro	Pro Leu Lys Met Thr	Gln Glu Ser Ala Leu	Ile
	275	280	285
Phe Pro Phe Leu	Asn Lys Ser Asp Ser	Gly Thr Tyr Gly Cys	Thr
	290	295	300
Ala Thr Ser Asn	Met Gly Ser Tyr Lys	Ala Tyr Tyr Thr Leu	Asn
	305	310	315
Val Asn Asp Pro	Ser Pro Val Pro Ser	Ser Ser Ser Thr Tyr	His
	320	325	330
Ala Ile Ile Gly	Gly Ile Val Ala Phe	Ile Val Phe Leu Leu	Leu
	335	340	345
Ile Met Leu Ile	Phe Leu Gly His Tyr	Leu Ile Arg His Lys	Gly
	350	355	360
Thr Tyr Leu Thr	His Glu Ala Lys Gly	Ser Asp Asp Ala Pro	Asp
	365	370	375
Ala Asp Thr Ala	Ile Ile Asn Ala Glu	Gly Gly Gln Ser Gly	Gly
	380	385	390
Asp Asp Lys Lys	Glu Tyr Phe Ile		
	395		

<210> 85

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 85
gctaggaatt ccacagaagc cc 22

<210> 86
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 86
aacctggaat gtcaccgagc tg 22

<210> 87
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 87
cctagcacag tgacgaggga cttggc 26

<210> 88
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 88
aagacacagc caccctaaac tgtcagtcct ctgggagcaa gcctgcagcc 50

<210> 89
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Sequence

<400> 89
gccctggcag acgagggcga gtacacctgc tcaatcttca ctatgcctgt 50

<210> 90
<211> 2755
<212> DNA
<213> Homo Sapien

<400> 90
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ctcctttcct ggcttcggac attggagcac taaatgaact tgaattgtgt 100
ctgtggcgag caggatggtc gctgttactt tgtgatgaga tcggggatga 150
attgctcgct ttaaaaatgc tgctttggat tctgttgctg gagacgtctc 200
tttgttttgc cgctggaaac gttacagggg acgtttgcaa agagaagatc 250

P1618P2C3.txt

tgttcctgca atgagataga aggggaccta cacgtagact gtgaaaaaaa 300
 gggcttcaca agtctgcagc gtttactgc cccgacttcc cagttttacc 350
 atttatttct gcatggcaat tccctcactc gacttttccc taatgagttc 400
 gctaactttt ataatgcggt tagtttgcac atggaaaaca atggcttgca 450
 tgaaatcggt ccgggggctt ttctggggct gcagctgggtg aaaaggctgc 500
 acatcaacaa caacaagatc aagtcttttc gaaagcagac ttttctgggg 550
 ctggacgatc tggaatatct ccaggctgat tttaatttat tacgagatat 600
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 ctttgaaaaa ccgagtggat tctagtctcc cggcgcccc tgcccaagaa 1000
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 caggcaactg gcagatcaaa atcagacca cagcagcgat agcgacgggt 1150
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 cagctgcgac cacatcccag ggtcgggttt aaagatgaac tgcaacaaca 1250
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 ctactgtaga gaacaacact ttcaagaacc ttttgacct caggtggcta 1450
 tacatggata gcaattacct ggacacgctg tcccgggaga aattcgcggg 1500
 gctgcaaaac ctagagtacc tgaacgtgga gtacaacgt atccagctca 1550
 tcctcccggg cactttcaat gccatgcccc aactgaggat cctcattctc 1600
 aacaacaacc tgctgaggtc cctgcctgtg gacgtgttcg ctggggtctc 1650
 gctctctaaa ctcagcctgc acaacaatta cttcatgtac ctcccgttg 1700
 caggggtgct ggaccagtta acctccatca tccagataga cctccacgga 1750
 aaccctggg agtgctcctg cacaattgtg ctttcaagc agtgggcaga 1800

P1618P2C3.txt

acgcttgggt tccgaagtgc tgatgagcga cctcaagtgt gagacgccgg 1850
 tgaacttctt tagaaaggat ttcattgtcc tctccaatga cgagatctgc 1900
 cctcagctgt acgctaggat ctgccccacg ttaacttcgc acagtaaaaa 1950
 cagcactggg ttggcggaga ccgggacgca ctccaactcc tacctagaca 2000
 ccagcagggg gtccatctcg gtgttggtcc cgggactgct gctggtgttt 2050
 gtcacctccg ctttaccgt ggtgggcatg ctctgtgtta tcctgaggaa 2100
 ccgaaagcgg tccaagagac gagatgcaa ctctccgcg tccgagatta 2150
 attccctaca gacagtctgt gactcttctt actggcaca tgggccttac 2200
 aacgcagatg gggccacag agtgtatgac tgtggctctc actcgtctc 2250
 agactaagac cccaaccca ataggggagg gcagaggga ggcgatacat 2300
 ccttccccac cgcaggcacc ccgggggctg gaggggcgtg tacccaaatc 2350
 cccgcgccat cagcctggat gggcataagt agataaataa ctgtgagctc 2400
 gcacaaccga aagggcctga ccccttactt agctccctcc ttgaaacaaa 2450
 gagcagactg tggagagctg ggagagcgca gccagctcgc tctttgctga 2500
 gagccccctt tgacagaaag ccagcacga ccctgctgga agaactgaca 2550
 gtgccctcgc cctcggcccc ggggcctgtg gggttggatg ccgcggttct 2600
 atacatatat acatatatcc acatctatat agagagatag atatctattt 2650
 ttcccctgtg gattagcccc gtgatggctc cctgttggct acgcagggat 2700
 gggcagttgc acgaaggcat gaatgtattg taaataagta actttgactt 2750
 ctgac 2755

<210> 91
 <211> 696
 <212> PRT
 <213> Homo Sapien

<400> 91
 Met Leu Leu Trp Ile Leu Leu Leu Glu Thr Ser Leu Cys Phe Ala
 1 5 10 15
 Ala Gly Asn Val Thr Gly Asp Val Cys Lys Glu Lys Ile Cys Ser
 20 25 30
 Cys Asn Glu Ile Glu Gly Asp Leu His Val Asp Cys Glu Lys Lys
 35 40 45
 Gly Phe Thr Ser Leu Gln Arg Phe Thr Ala Pro Thr Ser Gln Phe
 50 55 60
 Tyr His Leu Phe Leu His Gly Asn Ser Leu Thr Arg Leu Phe Pro
 65 70 75
 Asn Glu Phe Ala Asn Phe Tyr Asn Ala Val Ser Leu His Met Glu
 80 85 90

P1618P2C3.txt

Asn	Asn	Gly	Leu	His 95	Glu	Ile	Val	Pro	Gly 100	Ala	Phe	Leu	Gly	Leu 105
Gln	Leu	Val	Lys	Arg 110	Leu	His	Ile	Asn	Asn 115	Asn	Lys	Ile	Lys	Ser 120
Phe	Arg	Lys	Gln	Thr 125	Phe	Leu	Gly	Leu	Asp 130	Asp	Leu	Glu	Tyr	Leu 135
Gln	Ala	Asp	Phe	Asn 140	Leu	Leu	Arg	Asp	Ile 145	Asp	Pro	Gly	Ala	Phe 150
Gln	Asp	Leu	Asn	Lys 155	Leu	Glu	Val	Leu	Ile 160	Leu	Asn	Asp	Asn	Leu 165
Ile	Ser	Thr	Leu	Pro 170	Ala	Asn	Val	Phe	Gln 175	Tyr	Val	Pro	Ile	Thr 180
His	Leu	Asp	Leu	Arg 185	Gly	Asn	Arg	Leu	Lys 190	Thr	Leu	Pro	Tyr	Glu 195
Glu	Val	Leu	Glu	Gln 200	Ile	Pro	Gly	Ile	Ala 205	Glu	Ile	Leu	Leu	Glu 210
Asp	Asn	Pro	Trp	Asp 215	Cys	Thr	Cys	Asp	Leu 220	Leu	Ser	Leu	Lys	Glu 225
Trp	Leu	Glu	Asn	Ile 230	Pro	Lys	Asn	Ala	Leu 235	Ile	Gly	Arg	Val	Val 240
Cys	Glu	Ala	Pro	Thr 245	Arg	Leu	Gln	Gly	Lys 250	Asp	Leu	Asn	Glu	Thr 255
Thr	Glu	Gln	Asp	Leu 260	Cys	Pro	Leu	Lys	Asn 265	Arg	Val	Asp	Ser	Ser 270
Leu	Pro	Ala	Pro	Pro 275	Ala	Gln	Glu	Glu	Thr 280	Phe	Ala	Pro	Gly	Pro 285
Leu	Pro	Thr	Pro	Phe 290	Lys	Thr	Asn	Gly	Gln 295	Glu	Asp	His	Ala	Thr 300
Pro	Gly	Ser	Ala	Pro 305	Asn	Gly	Gly	Thr	Lys 310	Ile	Pro	Gly	Asn	Trp 315
Gln	Ile	Lys	Ile	Arg 320	Pro	Thr	Ala	Ala	Ile 325	Ala	Thr	Gly	Ser	Ser 330
Arg	Asn	Lys	Pro	Leu 335	Ala	Asn	Ser	Leu	Pro 340	Cys	Pro	Gly	Gly	Cys 345
Ser	Cys	Asp	His	Ile 350	Pro	Gly	Ser	Gly	Leu 355	Lys	Met	Asn	Cys	Asn 360
Asn	Arg	Asn	Val	Ser 365	Ser	Leu	Ala	Asp	Leu 370	Lys	Pro	Lys	Leu	Ser 375
Asn	Val	Gln	Glu	Leu 380	Phe	Leu	Arg	Asp	Asn 385	Lys	Ile	His	Ser	Ile 390
Arg	Lys	Ser	His	Phe 395	Val	Asp	Tyr	Lys	Asn 400	Leu	Ile	Leu	Leu	Asp 405

P1618P2C3.txt

Leu Gly Asn Asn	Asn Ile Ala Thr Val	Glu Asn Asn Thr Phe	Lys
410		415	420
Asn Leu Leu Asp	Leu Arg Trp Leu Tyr	Met Asp Ser Asn Tyr	Leu
425		430	435
Asp Thr Leu Ser	Arg Glu Lys Phe Ala	Gly Leu Gln Asn Leu	Glu
440		445	450
Tyr Leu Asn Val	Glu Tyr Asn Ala Ile	Gln Leu Ile Leu Pro	Gly
455		460	465
Thr Phe Asn Ala	Met Pro Lys Leu Arg	Ile Leu Ile Leu Asn	Asn
470		475	480
Asn Leu Leu Arg	Ser Leu Pro Val Asp	Val Phe Ala Gly Val	Ser
485		490	495
Leu Ser Lys Leu	Ser Leu His Asn Asn	Tyr Phe Met Tyr Leu	Pro
500		505	510
Val Ala Gly Val	Leu Asp Gln Leu Thr	Ser Ile Ile Gln Ile	Asp
515		520	525
Leu His Gly Asn	Pro Trp Glu Cys Ser	Cys Thr Ile Val Pro	Phe
530		535	540
Lys Gln Trp Ala	Glu Arg Leu Gly Ser	Glu Val Leu Met Ser	Asp
545		550	555
Leu Lys Cys Glu	Thr Pro Val Asn Phe	Phe Arg Lys Asp Phe	Met
560		565	570
Leu Leu Ser Asn	Asp Glu Ile Cys Pro	Gln Leu Tyr Ala Arg	Ile
575		580	585
Ser Pro Thr Leu	Thr Ser His Ser Lys	Asn Ser Thr Gly Leu	Ala
590		595	600
Glu Thr Gly Thr	His Ser Asn Ser Tyr	Leu Asp Thr Ser Arg	Val
605		610	615
Ser Ile Ser Val	Leu Val Pro Gly Leu	Leu Leu Val Phe Val	Thr
620		625	630
Ser Ala Phe Thr	Val Val Gly Met Leu	Val Phe Ile Leu Arg	Asn
635		640	645
Arg Lys Arg Ser	Lys Arg Arg Asp Ala	Asn Ser Ser Ala Ser	Glu
650		655	660
Ile Asn Ser Leu	Gln Thr Val Cys Asp	Ser Ser Tyr Trp His	Asn
665		670	675
Gly Pro Tyr Asn	Ala Asp Gly Ala His	Arg Val Tyr Asp Cys	Gly
680		685	690
Ser His Ser Leu	Ser Asp		
695			

<210> 92

<211> 22

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 92
gttgatctg ggcaacaata ac 22

<210> 93
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 93
attgttggtc aggctgagtt taag 24

<210> 94
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 94
ggtggctata catggatagc aattacctgg acacgctgtc ccggg 45

<210> 95
<211> 2226
<212> DNA
<213> Homo Sapien

<400> 95
agtgcactgc gtcccctgta cccggcgcca gctgtgttcc tgaccccaga 50
ataactcagg gctgcaccgg gcctggcagc gctccgcaca catttcctgt 100
cgcggcctaa gggaaactgt tggccgctgg gcccgcgggg ggattcttgg 150
cagttggggg gtccgtcggg agcgagggcg gaggggaagg gagggggaac 200
cgggttgggg aagccagctg tagagggcgg tgaccgcgct ccagacacag 250
ctctgcgtcc tcgagcggga cagatccaag ttgggagcag ctctgcgtgc 300
ggggcctcag agaatgaggg cggcggttcgc cctgtgcctc ctctggcagg 350
cgctctggcc cgggcccggg ggcggcgaac accccactgc cgaccgtgct 400
ggctgctcgg cctcgggggc ctgctacagc ctgcaccacg ctaccatgaa 450
gcggcaggcg gccgaggagg cctgcatcct gcgaggtggg gcgctcagca 500
ccgtgcgtgc gggcgccgag ctgcgcgctg tgctcgcgct cctgcgggca 550
ggcccagggc ccggaggggg ctccaaagac ctgctgttct gggtcgcact 600
ggagcgcagg cgttccact gcaccctgga gaacgagcct ttgcgggggt 650

P1618P2C3.txt

tctcctggct gtcctccgac cccggcggtc tcgaaagcga cacgctgcag 700
 tgggtggagg agccccaacg ctctgcacc gcgcggagat gcgcggtact 750
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 acctgcgcgc caacggctac ctgtgcaagt accagtttga ggtcttgtgt 850
 cctgcgccgc gcccggggc cgcctctaac ttgagctatc gcgcgccctt 900
 ccagctgcac agcgcgctc tggacttcag tccacctggg accgaggtga 950
 gtgcgctctg ccggggacag ctcccgatct cagttacttg catcgcggac 1000
 gaaatcggcg ctgcctggga caaactctcg ggcgatgtgt tgtgtccctg 1050
 ccccgggagg tacctccgtg ctggcaaagt cgcagagctc cctaactgcc 1100
 tagacgactt gggaggcttt gcctgcgaat gtgctacggg cttcgagctg 1150
 ggggaaggacg gccgctcttg tgtgaccagt ggggaaggac agccgaccct 1200
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 ccgtgccga gagaacatgg ccaatcaggg tcgacgagaa gctgggagag 1300
 acaccacttg tccctgaaca agacaattca gtaacatcta ttcctgagat 1350
 tcctcgatgg ggatcacaga gcacgatgtc tacccttcaa atgtcccttc 1400
 aagccgagtc aaaggccact atcaccccat caggagcgt gatttccaag 1450
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 tgccgtggtc ttcataattg tgagcacagc agtagtagtg ttggtgatct 1550
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 ctggcgagat cccctcttgg ctctagtat gcatagggaa acaggggaca 1800
 tgggcactcc tgtgaacagt ttttacttt tgatgaaacg gggaaaccaag 1850
 aggaacttac ttgtgtaact gacaatttct gcagaaatcc cccttcctct 1900
 aaattccctt tactccactg aggagctaaa tcagaactgc acactccttc 1950
 cctgatgata gaggaagtgg aagtgccttt aggatggtga tactggggga 2000
 ccgggtagtg ctggggagag atattttctt atgtttattc ggagaatttg 2050
 gagaagtgat tgaacttttc aagacattgg aaacaaatag aacacaatat 2100
 aatttacatt aaaaaataat ttctaccaa atggaaagga aatgttctat 2150
 gttgttcagg ctaggagtat attggttcga aatcccaggg aaaaaataa 2200
 aaataaaaaa ttaaaggatt gttgat 2226

P1618P2C3.txt

<210> 96
 <211> 490
 <212> PRT
 <213> Homo Sapien

<400> 96
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp
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 Pro Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly
 20 25 30
 Cys Ser Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met
 35 40 45
 Lys Arg Gln Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala
 50 55 60
 Leu Ser Thr Val Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala
 65 70 75
 Leu Leu Arg Ala Gly Pro Gly Pro Gly Gly Gly Ser Lys Asp Leu
 80 85 90
 Leu Phe Trp Val Ala Leu Glu Arg Arg Arg Ser His Cys Thr Leu
 95 100 105
 Glu Asn Glu Pro Leu Arg Gly Phe Ser Trp Leu Ser Ser Asp Pro
 110 115 120
 Gly Gly Leu Glu Ser Asp Thr Leu Gln Trp Val Glu Glu Pro Gln
 125 130 135
 Arg Ser Cys Thr Ala Arg Arg Cys Ala Val Leu Gln Ala Thr Gly
 140 145 150
 Gly Val Glu Pro Ala Gly Trp Lys Glu Met Arg Cys His Leu Arg
 155 160 165
 Ala Asn Gly Tyr Leu Cys Lys Tyr Gln Phe Glu Val Leu Cys Pro
 170 175 180
 Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr Arg Ala Pro
 185 190 195
 Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro Gly Thr
 200 205 210
 Glu Val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val Thr
 215 220 225
 Cys Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly
 230 235 240
 Asp Val Leu Cys Pro Cys Pro Gly Arg Tyr Leu Arg Ala Gly Lys
 245 250 255
 Cys Ala Glu Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala
 260 265 270
 Cys Glu Cys Ala Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser
 275 280 285

P1618P2C3.txt

Cys	Val	Thr	Ser	Gly	Glu	Gly	Gln	Pro	Thr	Leu	Gly	Gly	Thr	Gly
				290					295					300
Val	Pro	Thr	Arg	Arg	Pro	Pro	Ala	Thr	Ala	Thr	Ser	Pro	Val	Pro
				305					310					315
Gln	Arg	Thr	Trp	Pro	Ile	Arg	Val	Asp	Glu	Lys	Leu	Gly	Glu	Thr
				320					325					330
Pro	Leu	Val	Pro	Glu	Gln	Asp	Asn	Ser	Val	Thr	Ser	Ile	Pro	Glu
				335					340					345
Ile	Pro	Arg	Trp	Gly	Ser	Gln	Ser	Thr	Met	Ser	Thr	Leu	Gln	Met
				350					355					360
Ser	Leu	Gln	Ala	Glu	Ser	Lys	Ala	Thr	Ile	Thr	Pro	Ser	Gly	Ser
				365					370					375
Val	Ile	Ser	Lys	Phe	Asn	Ser	Thr	Thr	Ser	Ser	Ala	Thr	Pro	Gln
				380					385					390
Ala	Phe	Asp	Ser	Ser	Ser	Ala	Val	Val	Phe	Ile	Phe	Val	Ser	Thr
				395					400					405
Ala	Val	Val	Val	Leu	Val	Ile	Leu	Thr	Met	Thr	Val	Leu	Gly	Leu
				410					415					420
Val	Lys	Leu	Cys	Phe	His	Glu	Ser	Pro	Ser	Ser	Gln	Pro	Arg	Lys
				425					430					435
Glu	Ser	Met	Gly	Pro	Pro	Gly	Leu	Glu	Ser	Asp	Pro	Glu	Pro	Ala
				440					445					450
Ala	Leu	Gly	Ser	Ser	Ser	Ala	His	Cys	Thr	Asn	Asn	Gly	Val	Lys
				455					460					465
Val	Gly	Asp	Cys	Asp	Leu	Arg	Asp	Arg	Ala	Glu	Gly	Ala	Leu	Leu
				470					475					480
Ala	Glu	Ser	Pro	Leu	Gly	Ser	Ser	Asp	Ala					
				485					490					

<210> 97

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide Probe

<400> 97

tggaaggaga tgcatgccca cctg 24

<210> 98

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic oligonucleotide probe

<400> 98

tgaccagtgg ggaaggacag 20

<210> 99
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 99
 acagagcaga ggtgccttg 20

<210> 100
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 100
 tcagggacaa gtggtgtctc tccc 24

<210> 101
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 101
 tcagggaagg agtgtgcagt tctg 24

<210> 102
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 102
 acagctcccg atctcagtta cttgcatcgc ggacgaaatc ggcgctcgct 50

<210> 103
 <211> 2026
 <212> DNA
 <213> Homo Sapien

<400> 103
 cggacgcgtg ggattcagca gtggcctgtg gctgccagag cagctcctca 50
 ggggaaacta agcgtcagat cagacggcac cataatcgcc tttaaaagtg 100
 cctccgccct gccggccgcg tatcccccg cttacctgggc cgccccgcgg 150
 cgggtgcgcgc gtgagagggg gcgcgcgggc agccgagcgc cgggtgtgagc 200
 cagcgtgct gccagtgtga gcggcgggtg gagcgcgggtg ggtgcggagg 250
 ggcgtgtgtg ccggcgcgcg cgccgtgggg tgcaaaccac gagcgtctac 300

P1618P2C3.txt

gctgccatga ggggcgcgaa cgcctgggcg ccactctgcc tgctgctggc 350
 tgccgccacc cagctctcgc ggcagcagtc cccagagaga cctgttttca 400
 catgtggtgg cattcttact ggagagtctg gatttattgg cagtgaaggt 450
 tttcctggag tgtaccctcc aaatagcaaa tgtacttggga aaatcacagt 500
 tcccgaagga aaagtagtcg ttctcaattt ccgattcata gacctcgaga 550
 gtgacaacct gtgccgctat gactttgtgg atgtgtacaa tggccatgcc 600
 aatggccagc gcattggccg cttctgtggc actttccggc ctggagccct 650
 tgtgtccagt ggcaacaaga tgatggtgca gatgatttct gatgccaaca 700
 cagctggcaa tggcttcatg gccatgttct ccgctgctga accaaacgaa 750
 agaggggatc agtattgtgg aggactcctt gacagacctt ccggctcttt 800
 taaaaccccc aactggccag accgggatta ccctgcagga gtcacttgtg 850
 tgtggcacat tgtagcccca aagaatcagc ttatagaatt aaagtttgag 900
 aagtttgatg tggagcgaga taactactgc cgatatgatt atgtggctgt 950
 gtttaatggc ggggaagtca acgatgctag aagaattgga aagtattgtg 1000
 gtgatagtcc acctgcgcca attgtgtctg agagaaatga acttcttatt 1050
 cagtttttat cagacttaag tttaactgca gatgggttta ttggtcacta 1100
 catattcagg ccaaaaaaac tgcctacaac tacagaacag cctgtcacca 1150
 ccacattccc tgtaaccacg ggttttaaac ccaccgtggc cttgtgtcaa 1200
 caaaagtgtg gacggacggg gactctggag ggcaattatt gttcaagtga 1250
 ctttgtatta gccggcactg ttatcacaac catcactcgc gatgggagtt 1300
 tgcacgccac agtctcgatc atcaacatct acaaagaggg aaatttggcg 1350
 attcagcagg cgggcaagaa catgagtgcc aggctgactg tcgtctgcaa 1400
 gcagtgccct ctctcagaa gaggtctaaa ttacattatt atgggccaag 1450
 taggtgaaga tgggcgaggg aaaatcatgc caaacagctt tatcatgatg 1500
 ttcaagacca agaatcagaa gtcctggat gccttaaaaa ataagcaatg 1550
 ttaacagtga actgtgtcca tttaagctgt attctgccat tgcctttgaa 1600
 agatctatgt tctctcagta gaaaaaaaa tacttataaa attacatatt 1650
 ctgaaagagg attccgaaag atgggactgg ttgactcttc acatgatgga 1700
 ggtatgaggc ctccgagata gctgagggaa gttctttgcc tgctgtcaga 1750
 ggagcagcta tctgattgga aacctgccga cttagtgcgg tgataggaag 1800
 ctaaaagtgt caagcgttga cagcttgga gcgtttattt atacatctct 1850

P1618P2C3.txt

gtaaaaggat attttagaat tgagttgtgt gaagatgtca aaaaaagatt 1900
 ttagaagtgc aatatttata gtgttatttg tttcaccttc aagcctttgc 1950
 cctgaggtgt tacaatcttg tcttgcgttt tctaaatcaa tgcttaataa 2000
 aatattttta aaggaaaaaa aaaaaa 2026

<210> 104
 <211> 415
 <212> PRT
 <213> Homo Sapien

<400> 104
 Met Arg Gly Ala Asn Ala Trp Ala Pro Leu Cys Leu Leu Leu Ala
 1 5 10 15
 Ala Ala Thr Gln Leu Ser Arg Gln Gln Ser Pro Glu Arg Pro Val
 20 25 30
 Phe Thr Cys Gly Gly Ile Leu Thr Gly Glu Ser Gly Phe Ile Gly
 35 40 45
 Ser Glu Gly Phe Pro Gly Val Tyr Pro Pro Asn Ser Lys Cys Thr
 50 55 60
 Trp Lys Ile Thr Val Pro Glu Gly Lys Val Val Val Leu Asn Phe
 65 70 75
 Arg Phe Ile Asp Leu Glu Ser Asp Asn Leu Cys Arg Tyr Asp Phe
 80 85 90
 Val Asp Val Tyr Asn Gly His Ala Asn Gly Gln Arg Ile Gly Arg
 95 100 105
 Phe Cys Gly Thr Phe Arg Pro Gly Ala Leu Val Ser Ser Gly Asn
 110 115 120
 Lys Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn
 125 130 135
 Gly Phe Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly
 140 145 150
 Asp Gln Tyr Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe
 155 160 165
 Lys Thr Pro Asn Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr
 170 175 180
 Cys Val Trp His Ile Val Ala Pro Lys Asn Gln Leu Ile Glu Leu
 185 190 195
 Lys Phe Glu Lys Phe Asp Val Glu Arg Asp Asn Tyr Cys Arg Tyr
 200 205 210
 Asp Tyr Val Ala Val Phe Asn Gly Gly Glu Val Asn Asp Ala Arg
 215 220 225
 Arg Ile Gly Lys Tyr Cys Gly Asp Ser Pro Pro Ala Pro Ile Val
 230 235 240
 Ser Glu Arg Asn Glu Leu Leu Ile Gln Phe Leu Ser Asp Leu Ser

P1618P2C3.txt

245		250		255
Leu Thr Ala Asp	Gly Phe Ile Gly His	Tyr Ile Phe Arg Pro	Lys	
	260	265	270	
Lys Leu Pro Thr	Thr Thr Glu Gln Pro	Val Thr Thr Thr Phe	Pro	
	275	280	285	
Val Thr Thr Gly	Leu Lys Pro Thr Val	Ala Leu Cys Gln Gln	Lys	
	290	295	300	
Cys Arg Arg Thr	Gly Thr Leu Glu Gly	Asn Tyr Cys Ser Ser	Asp	
	305	310	315	
Phe Val Leu Ala	Gly Thr Val Ile Thr	Thr Ile Thr Arg Asp	Gly	
	320	325	330	
Ser Leu His Ala	Thr Val Ser Ile Ile	Asn Ile Tyr Lys Glu	Gly	
	335	340	345	
Asn Leu Ala Ile	Gln Gln Ala Gly Lys	Asn Met Ser Ala Arg	Leu	
	350	355	360	
Thr Val Val Cys	Lys Gln Cys Pro Leu	Leu Arg Arg Gly Leu	Asn	
	365	370	375	
Tyr Ile Ile Met	Gly Gln Val Gly Glu	Asp Gly Arg Gly Lys	Ile	
	380	385	390	
Met Pro Asn Ser	Phe Ile Met Met Phe	Lys Thr Lys Asn Gln	Lys	
	395	400	405	
Leu Leu Asp Ala	Leu Lys Asn Lys Gln	Cys		
	410	415		

<210> 105
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 105
 ccgattcata gacctcgaga gt 22

<210> 106
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 106
 gtcaaggagt cctccacaat ac 22

<210> 107
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 107

gtgtacaatg gccatgccaa tggccagcgc attggccgct tctgt 45

<210> 108

<211> 1838

<212> DNA

<213> Homo Sapien

<400> 108

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 cggtcgcttc ttccttctcc gtggcctacg aggggtcccca gcctgggtaa 100
 agatggcccc atggcccccg aagggcctag tcccagctgt gctctggggc 150
 ctcagcctct tcctcaacct cccaggacct atctggctcc agccctctcc 200
 acctccccag tcttctcccc cgcctcagcc ccatccgtgt catacctgcc 250
 ggggactggt tgacagcttt aacaagggcc tggagagAAC catccgggac 300
 aactttggag gtggaaacac tgcctgggag gaagagaatt tgtccaaata 350
 caaagacagt gagaccgcgc tggtagaggt gctggagggt gtgtgcagca 400
 agtcagactt cgagtgccac cgcctgctgg agctgagtga ggagctggtg 450
 gagagctggt ggtttcacia gcagcaggag gccccggacc tcttccagtg 500
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 gggcagtggt aaggagaagg gacacgaggg ggcagcgggc actgtgactg 650
 ccaagccggc tacgggggtg aggcctgtgg ccagtgtggc cttggctact 700
 ttgaggcaga acgcaacgcc agccatctgg tatgttcggc ttgttttggc 750
 ccctgtgccc gatgctcagg acctgaggaa tcaaactgtt tgcaatgcaa 800
 gaagggtggt gccctgcata acctcaagtg tntagacatt gatgagtgtg 850
 gcacagaggg agccaactgt ggagctgacc aattctgcgt gaacactgag 900
 ggctcctatg agtgccgaga ctgtgccaa gcctgcctag gctgcatggg 950
 ggcagggcca ggtcgtgta agaagtgtag ccctggctat cagcagggtg 1000
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 agtcagcagg cttcttctca gagatgacag aagacgagtt ggtggtgctg 1200
 cagcagatgt tctttggcat catcatctgt gcactggcca cgctggctgc 1250
 taagggcgac ttggtgttca ccgccatctt cattggggct gtggcgcca 1300

P1618P2C3.txt

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cgctgcccc agagcttggg ctgccctcct gctggacact caggacagct 1450
tggtttattt ttgagagtgg ggtaagcacc cctacctgcc ttacagagca 1500
gcccaggtac ccaggccccg gcagacaagg cccctggggg aaaaagtagc 1550
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cacaatgtgt gaatttcaaa agtttttcct taatgggtggc tgctagagct 1650
ttggcccctg cttaggatta ggtggtcctc acaggggtgg ggccatcaca 1700
gctccctcct gccagctgca tgctgccagt tcctgttctg tgttcaccac 1750
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ggtcttgga agttaaaaaa aaaaaaaaaa aaaaaaaa 1838

<210> 109

<211> 420

<212> PRT

<213> Homo Sapien

<400> 109

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Gly	Leu	Ser	Leu	Phe	Leu	Asn	Leu	Pro	Gly	Pro	Ile	Trp	Leu	Gln
			20						25					30
Pro	Ser	Pro	Pro	Pro	Gln	Ser	Ser	Pro	Pro	Pro	Gln	Pro	His	Pro
				35					40					45
Cys	His	Thr	Cys	Arg	Gly	Leu	Val	Asp	Ser	Phe	Asn	Lys	Gly	Leu
				50					55					60
Glu	Arg	Thr	Ile	Arg	Asp	Asn	Phe	Gly	Gly	Gly	Asn	Thr	Ala	Trp
				65					70					75
Glu	Glu	Glu	Asn	Leu	Ser	Lys	Tyr	Lys	Asp	Ser	Glu	Thr	Arg	Leu
				80					85					90
Val	Glu	Val	Leu	Glu	Gly	Val	Cys	Ser	Lys	Ser	Asp	Phe	Glu	Cys
				95					100					105
His	Arg	Leu	Leu	Glu	Leu	Ser	Glu	Glu	Leu	Val	Glu	Ser	Trp	Trp
				110					115					120
Phe	His	Lys	Gln	Gln	Glu	Ala	Pro	Asp	Leu	Phe	Gln	Trp	Leu	Cys
				125					130					135
Ser	Asp	Ser	Leu	Lys	Leu	Cys	Cys	Pro	Ala	Gly	Thr	Phe	Gly	Pro
				140					145					150
Ser	Cys	Leu	Pro	Cys	Pro	Gly	Gly	Thr	Glu	Arg	Pro	Cys	Gly	Gly
				155					160					165
Tyr	Gly	Gln	Cys	Glu	Gly	Glu	Gly	Thr	Arg	Gly	Gly	Ser	Gly	His
				170					175					180

P1618P2C3.txt

Cys	Asp	Cys	Gln	Ala	Gly	Tyr	Gly	Gly	Glu	Ala	Cys	Gly	Gln	Cys
				185					190					195
Gly	Leu	Gly	Tyr	Phe	Glu	Ala	Glu	Arg	Asn	Ala	Ser	His	Leu	Val
				200					205					210
Cys	Ser	Ala	Cys	Phe	Gly	Pro	Cys	Ala	Arg	Cys	Ser	Gly	Pro	Glu
				215					220					225
Glu	Ser	Asn	Cys	Leu	Gln	Cys	Lys	Lys	Gly	Trp	Ala	Leu	His	His
				230					235					240
Leu	Lys	Cys	Val	Asp	Ile	Asp	Glu	Cys	Gly	Thr	Glu	Gly	Ala	Asn
				245					250					255
Cys	Gly	Ala	Asp	Gln	Phe	Cys	Val	Asn	Thr	Glu	Gly	Ser	Tyr	Glu
				260					265					270
Cys	Arg	Asp	Cys	Ala	Lys	Ala	Cys	Leu	Gly	Cys	Met	Gly	Ala	Gly
				275					280					285
Pro	Gly	Arg	Cys	Lys	Lys	Cys	Ser	Pro	Gly	Tyr	Gln	Gln	Val	Gly
				290					295					300
Ser	Lys	Cys	Leu	Asp	Val	Asp	Glu	Cys	Glu	Thr	Glu	Val	Cys	Pro
				305					310					315
Gly	Glu	Asn	Lys	Gln	Cys	Glu	Asn	Thr	Glu	Gly	Gly	Tyr	Arg	Cys
				320					325					330
Ile	Cys	Ala	Glu	Gly	Tyr	Lys	Gln	Met	Glu	Gly	Ile	Cys	Val	Lys
				335					340					345
Glu	Gln	Ile	Pro	Glu	Ser	Ala	Gly	Phe	Phe	Ser	Glu	Met	Thr	Glu
				350					355					360
Asp	Glu	Leu	Val	Val	Leu	Gln	Gln	Met	Phe	Phe	Gly	Ile	Ile	Ile
				365					370					375
Cys	Ala	Leu	Ala	Thr	Leu	Ala	Ala	Lys	Gly	Asp	Leu	Val	Phe	Thr
				380					385					390
Ala	Ile	Phe	Ile	Gly	Ala	Val	Ala	Ala	Met	Thr	Gly	Tyr	Trp	Leu
				395					400					405
Ser	Glu	Arg	Ser	Asp	Arg	Val	Leu	Glu	Gly	Phe	Ile	Lys	Gly	Arg
				410					415					420

<210> 110

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 110

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<210> 111

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 111

attctgctg aacttgagg gc 22

<210> 112

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 112

atctgcttgt agccctcggc ac 22

<210> 113

<211> 1616

<212> DNA

<213> Homo Sapien

<220>

<221> unsure

<222> 1461

<223> unknown base

<400> 113

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 tcctccaggc cagcaccatg cagcccctgt ggctctgctg ggcactctgg 100
 gtgttgcccc tggccagccc cggggccgcc ctgaccgggg agcagctcct 150
 gggcagcctg ctgcggcagc tgcagctcaa agaggtgccc accctggaca 200
 gggccgacat ggaggagctg gtcacccca cccacgtgag ggcccagtac 250
 gtggccctgc tgcagcgcag ccacggggac cgctcccgcg gaaagaggtt 300
 cagccagagc ttccgagagg tggccggcag gttcctggcg ttggaggcca 350
 gcacacacct gctggtgttc ggcattggag agcggctgcc gcccaacagc 400
 gagctggtgc aggccgtgct gcggctcttc caggagccgg tccccaaggc 450
 cgcgctgcac aggcacgggc ggctgtcccc gcgcagcgcc cgggcccggg 500
 tgaccgtcga gtggctgcgc gtccgcgacg acggctccaa ccgcacctcc 550
 ctcatcgact ccaggctggt gtccgtccac gagagcggct ggaaggcctt 600
 cgacgtgacc gaggccgtga acttctggca gcagctgagc cggccccggc 650
 agccgctgct gctacaggtg tcggtgcaga gggagcatct gggcccgtg 700
 gcgtccggcg ccacaagct ggtccgcttt gcctcgcagg gggcgccagc 750
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 atggagctca gggcgactgt gaccctgaag caccaatgac cgagggcacc 850

P1618P2C3.txt

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 gcacctgccg gcagcccccg gagggccttg ccttcaagtg gccgtttctg 1000
 gggcctcgac agtgcacgc ctcggagact gactcgtgc ccatgatcgt 1050
 cagcatcaag gagggaggca ggaccaggcc ccagggtggtc agcctgcca 1100
 acatgagggt gcagaagtgc agctgtgcct cggatggtgc gctcgtgcca 1150
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 ctttgccac tggagagccc ttgctcagtt ttctctattc ttattattca 1400
 ctgcactata ttctaagcac ttacatgtgg agatactgta acctgagggc 1450
 agaaagccca ntgtgtcatt gtttacttgt cctgtcactg gatctgggct 1500
 aaagtctcc accaccactc tggacctaag acctgggggt aagtgtgggt 1550
 tgtgcatccc caatccagat aataaagact ttgtaaaaca tgaataaaac 1600
 acattttatt ctaaaa 1616

<210> 114
 <211> 366
 <212> PRT
 <213> Homo Sapien

<400> 114
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 Ala Ser Pro Gly Ala Ala Leu Thr Gly Glu Gln Leu Leu Gly Ser
 20 25 30
 Leu Leu Arg Gln Leu Gln Leu Lys Glu Val Pro Thr Leu Asp Arg
 35 40 45
 Ala Asp Met Glu Glu Leu Val Ile Pro Thr His Val Arg Ala Gln
 50 55 60
 Tyr Val Ala Leu Leu Gln Arg Ser His Gly Asp Arg Ser Arg Gly
 65 70 75
 Lys Arg Phe Ser Gln Ser Phe Arg Glu Val Ala Gly Arg Phe Leu
 80 85 90
 Ala Leu Glu Ala Ser Thr His Leu Leu Val Phe Gly Met Glu Gln
 95 100 105
 Arg Leu Pro Pro Asn Ser Glu Leu Val Gln Ala Val Leu Arg Leu
 110 115 120

P1618P2C3.txt

Phe	Gln	Glu	Pro	Val	Pro	Lys	Ala	Ala	Leu	His	Arg	His	Gly	Arg
				125					130					135
Leu	Ser	Pro	Arg	Ser	Ala	Arg	Ala	Arg	Val	Thr	Val	Glu	Trp	Leu
				140					145					150
Arg	Val	Arg	Asp	Asp	Gly	Ser	Asn	Arg	Thr	Ser	Leu	Ile	Asp	Ser
				155					160					165
Arg	Leu	Val	Ser	Val	His	Glu	Ser	Gly	Trp	Lys	Ala	Phe	Asp	Val
				170					175					180
Thr	Glu	Ala	Val	Asn	Phe	Trp	Gln	Gln	Leu	Ser	Arg	Pro	Arg	Gln
				185					190					195
Pro	Leu	Leu	Leu	Gln	Val	Ser	Val	Gln	Arg	Glu	His	Leu	Gly	Pro
				200					205					210
Leu	Ala	Ser	Gly	Ala	His	Lys	Leu	Val	Arg	Phe	Ala	Ser	Gln	Gly
				215					220					225
Ala	Pro	Ala	Gly	Leu	Gly	Glu	Pro	Gln	Leu	Glu	Leu	His	Thr	Leu
				230					235					240
Asp	Leu	Gly	Asp	Tyr	Gly	Ala	Gln	Gly	Asp	Cys	Asp	Pro	Glu	Ala
				245					250					255
Pro	Met	Thr	Glu	Gly	Thr	Arg	Cys	Cys	Arg	Gln	Glu	Met	Tyr	Ile
				260					265					270
Asp	Leu	Gln	Gly	Met	Lys	Trp	Ala	Glu	Asn	Trp	Val	Leu	Glu	Pro
				275					280					285
Pro	Gly	Phe	Leu	Ala	Tyr	Glu	Cys	Val	Gly	Thr	Cys	Arg	Gln	Pro
				290					295					300
Pro	Glu	Ala	Leu	Ala	Phe	Lys	Trp	Pro	Phe	Leu	Gly	Pro	Arg	Gln
				305					310					315
Cys	Ile	Ala	Ser	Glu	Thr	Asp	Ser	Leu	Pro	Met	Ile	Val	Ser	Ile
				320					325					330
Lys	Glu	Gly	Gly	Arg	Thr	Arg	Pro	Gln	Val	Val	Ser	Leu	Pro	Asn
				335					340					345
Met	Arg	Val	Gln	Lys	Cys	Ser	Cys	Ala	Ser	Asp	Gly	Ala	Leu	Val
				350					355					360
Pro	Arg	Arg	Leu	Gln	Pro									
				365										

<210> 115

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 115

aggactgccca taacttgccct g 21

<210> 116

P1618P2C3.txt

<211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 116
 ataggagttg aagcagcgct gc 22

<210> 117
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 117
 tgtgtggaca tagacgagtg ccgctaccgc tactgccagc accgc 45

<210> 118
 <211> 1857
 <212> DNA
 <213> Homo Sapien

<400> 118
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 gatggggaca aaggcgcaag tcgagaggaa actgttgtgc ctcttcatat 100
 tggcgatcct gttgtgctcc ctggcattgg gcagtgttac agtgcactct 150
 tctgaacctg aagtcagaat tcctgagaat aatcctgtga agttgtcctg 200
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 acagctatgg ggagggtcaag gtcaagctca tcgtgcttgt gcctccatcc 450
 aagcctacag ttaacatccc ctctctgcc accattggga accgggcagt 500
 gctgacatgc tcagaacaag atgggttccc accttctgaa tacacctggt 550
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 ggtatgggac acccatgact tcaaatgctg tgcgcatgga agctgtggag 750
 cggaatgtgg ggggtcatcgt ggcagccgtc cttgtaacct tgattctcct 800
 gggaaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg 850
 acagaacaaa gaaagggact tcgagtaaga aggtgattta cagccagcct 900

P1618P2C3.txt

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 agcctggtcg gctcaccgcc tatcatctgc atttgcctta ctcagggtgct 1000
 accggactct ggcccctgat gtctgtagtt tcacaggatg ccttatttgt 1050
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 ctgctgagtg gcctggaact tgtttaaagt gtttattccc catttctttg 1200
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 acagcaaaaa tggcgggggt cgcaggaatc tgcaactaac tgcccacctg 1300
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 ctagagcggc tgaaatggtt gtttggtgat gacactgggg tccttccatc 1450
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 tgaagccaaa aggatttaaa accgctgctc taaagaaaag aaaactggag 1650
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 tcacctgagg tcgggagttc gggatcagcc tgaccaacat ggagaaaccc 1750
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 agctgctcag gagcctggca acaagagcaa aactccagct caaaaaaaaaa 1850
 aaaaaaa 1857

<210> 119
 <211> 299
 <212> PRT
 <213> Homo Sapien

<400> 119
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 1 5 10 15
 Ile Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr
 20 25 30
 Val His Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro
 35 40 45
 Val Lys Leu Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val
 50 55 60
 Glu Trp Lys Phe Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr
 65 70 75
 Asn Asn Lys Ile Thr Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu
 80 85 90

P1618P2C3.txt

Pro	Thr	Gly	Ile	Thr	Phe	Lys	Ser	Val	Thr	Arg	Glu	Asp	Thr	Gly	95	100	105
Thr	Tyr	Thr	Cys	Met	Val	Ser	Glu	Glu	Gly	Gly	Asn	Ser	Tyr	Gly	110	115	120
Glu	Val	Lys	Val	Lys	Leu	Ile	Val	Leu	Val	Pro	Pro	Ser	Lys	Pro	125	130	135
Thr	Val	Asn	Ile	Pro	Ser	Ser	Ala	Thr	Ile	Gly	Asn	Arg	Ala	Val	140	145	150
Leu	Thr	Cys	Ser	Glu	Gln	Asp	Gly	Ser	Pro	Pro	Ser	Glu	Tyr	Thr	155	160	165
Trp	Phe	Lys	Asp	Gly	Ile	Val	Met	Pro	Thr	Asn	Pro	Lys	Ser	Thr	170	175	180
Arg	Ala	Phe	Ser	Asn	Ser	Ser	Tyr	Val	Leu	Asn	Pro	Thr	Thr	Gly	185	190	195
Glu	Leu	Val	Phe	Asp	Pro	Leu	Ser	Ala	Ser	Asp	Thr	Gly	Glu	Tyr	200	205	210
Ser	Cys	Glu	Ala	Arg	Asn	Gly	Tyr	Gly	Thr	Pro	Met	Thr	Ser	Asn	215	220	225
Ala	Val	Arg	Met	Glu	Ala	Val	Glu	Arg	Asn	Val	Gly	Val	Ile	Val	230	235	240
Ala	Ala	Val	Leu	Val	Thr	Leu	Ile	Leu	Leu	Gly	Ile	Leu	Val	Phe	245	250	255
Gly	Ile	Trp	Phe	Ala	Tyr	Ser	Arg	Gly	His	Phe	Asp	Arg	Thr	Lys	260	265	270
Lys	Gly	Thr	Ser	Ser	Lys	Lys	Val	Ile	Tyr	Ser	Gln	Pro	Ser	Ala	275	280	285
Arg	Ser	Glu	Gly	Glu	Phe	Lys	Gln	Thr	Ser	Ser	Phe	Leu	Val		290	295	

<210> 120
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 120
 tcgcggagct gtgttctgtt tccc 24

<210> 121
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 121

tgatcgcgat ggggacaaaag gcgcaagctc gagaggaaac tgttgcct 50

<210> 122
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 122
 acacctgggtt caaagatggg 20

<210> 123
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 123
 taggaagagt tgctgaaggc acgg 24

<210> 124
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 124
 ttgccttact caggtgctac 20

<210> 125
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 125
 actcagcagt ggtaggaaag 20

<210> 126
 <211> 1210
 <212> DNA
 <213> Homo sapien

<400> 126
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 gcgcaggttg gagcgtggcg aacaggggct ctgggcctgg cgctgctgct 100
 gctgctcggc ctcggactag gcctggaggc cgccgcgagc ccgctttcca 150
 ccccgacctc tgcccaggcc gcaggcccca gctcaggctc gtgcccaccc 200
 accaagttcc agtgccgcac cagtggctta tgcgtgcccc tcacctggcg 250
 ctgcgacagg gacttggact gcagcgatgg cagcgatgag gaggagtgca 300

P1618P2C3.txt

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 tccctggaca ctccctatgg agatccgggg agctaggatg gggaaacctgc 1100
 cacagccaga actgaggggc tggccccagg cagctcccag ggggtagaac 1150
 ggccctgtgc ttaagacact ccctgctgcc ccgtctgagg gtggcgatta 1200
 aagttgcttc 1210

<210> 127
 <211> 282
 <212> PRT
 <213> Homo Sapien

<400> 127
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 1 5 10 15
 Ala Leu Gly Leu Ala Leu Leu Leu Leu Gly Leu Gly Leu Gly
 20 25 30
 Leu Glu Ala Ala Ala Ser Pro Leu Ser Thr Pro Thr Ser Ala Gln
 35 40 45
 Ala Ala Gly Pro Ser Ser Gly Ser Cys Pro Pro Thr Lys Phe Gln
 50 55 60
 Cys Arg Thr Ser Gly Leu Cys Val Pro Leu Thr Trp Arg Cys Asp
 65 70 75
 Arg Asp Leu Asp Cys Ser Asp Gly Ser Asp Glu Glu Glu Cys Arg
 80 85 90

P1618P2C3.txt

Ile	Glu	Pro	Cys	Thr	Gln	Lys	Gly	Gln	Cys	Pro	Pro	Pro	Pro	Gly
				95					100					105
Leu	Pro	Cys	Pro	Cys	Thr	Gly	Val	Ser	Asp	Cys	Ser	Gly	Gly	Thr
				110					115					120
Asp	Lys	Lys	Leu	Arg	Asn	Cys	Ser	Arg	Leu	Ala	Cys	Leu	Ala	Gly
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Glu	Leu	Arg	Cys	Thr	Leu	Ser	Asp	Asp	Cys	Ile	Pro	Leu	Thr	Trp
				140					145					150
Arg	Cys	Asp	Gly	His	Pro	Asp	Cys	Pro	Asp	Ser	Ser	Asp	Glu	Leu
				155					160					165
Gly	Cys	Gly	Thr	Asn	Glu	Ile	Leu	Pro	Glu	Gly	Asp	Ala	Thr	Thr
				170					175					180
Met	Gly	Pro	Pro	Val	Thr	Leu	Glu	Ser	Val	Thr	Ser	Leu	Arg	Asn
				185					190					195
Ala	Thr	Thr	Met	Gly	Pro	Pro	Val	Thr	Leu	Glu	Ser	Val	Pro	Ser
				200					205					210
Val	Gly	Asn	Ala	Thr	Ser	Ser	Ser	Ala	Gly	Asp	Gln	Ser	Gly	Ser
				215					220					225
Pro	Thr	Ala	Tyr	Gly	Val	Ile	Ala	Ala	Ala	Ala	Val	Leu	Ser	Ala
				230					235					240
Ser	Leu	Val	Thr	Ala	Thr	Leu	Leu	Leu	Leu	Ser	Trp	Leu	Arg	Ala
				245					250					255
Gln	Glu	Arg	Leu	Arg	Pro	Leu	Gly	Leu	Leu	Val	Ala	Met	Lys	Glu
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Ser	Leu	Leu	Leu	Ser	Glu	Gln	Lys	Thr	Ser	Leu	Pro			
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<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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<210> 129

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 129

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<210> 130

<211> 50

P1618P2C3.txt

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<222> 1837
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P1618P2C3.txt

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<211> 490

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<213> Homo Sapien

<400> 132

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				20					25					30
Ala	Val	Ile	Leu	Trp	Phe	Gln	Leu	Ala	Leu	Cys	Phe	Gly	Pro	Ala
				35					40					45
Gln	Leu	Thr	Gly	Gly	Phe	Asp	Asp	Leu	Gln	Val	Cys	Ala	Asp	Pro
				50					55					60
Gly	Ile	Pro	Glu	Asn	Gly	Phe	Arg	Thr	Pro	Ser	Gly	Gly	Val	Phe
				65					70					75
Phe	Glu	Gly	Ser	Val	Ala	Arg	Phe	His	Cys	Gln	Asp	Gly	Phe	Lys
				80					85					90
Leu	Lys	Gly	Ala	Thr	Lys	Arg	Leu	Cys	Leu	Lys	His	Phe	Asn	Gly
				95					100					105
Thr	Leu	Gly	Trp	Ile	Pro	Ser	Asp	Asn	Ser	Ile	Cys	Val	Gln	Glu
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Asp	Cys	Arg	Ile	Pro	Gln	Ile	Glu	Asp	Ala	Glu	Ile	His	Asn	Lys
				125					130					135

P1618P2C3.txt

Thr	Tyr	Arg	His	Gly 140	Glu	Lys	Leu	Ile	Ile 145	Thr	Cys	His	Glu	Gly 150
Phe	Lys	Ile	Arg	Tyr 155	Pro	Asp	Leu	His	Asn 160	Met	Val	Ser	Leu	Cys 165
Arg	Asp	Asp	Gly	Thr 170	Trp	Asn	Asn	Leu	Pro 175	Ile	Cys	Gln	Gly	Cys 180
Leu	Arg	Pro	Leu	Ala 185	Ser	Ser	Asn	Gly	Tyr 190	Val	Asn	Ile	Ser	Glu 195
Leu	Gln	Thr	Ser	Phe 200	Pro	Val	Gly	Thr	Val 205	Ile	Ser	Tyr	Arg	Cys 210
Phe	Pro	Gly	Phe	Lys 215	Leu	Asp	Gly	Ser	Ala 220	Tyr	Leu	Glu	Cys	Leu 225
Gln	Asn	Leu	Ile	Trp 230	Ser	Ser	Ser	Pro	Pro 235	Arg	Cys	Leu	Ala	Leu 240
Glu	Ala	Gln	Val	Cys 245	Pro	Leu	Pro	Pro	Met 250	Val	Ser	His	Gly	Asp 255
Phe	Val	Cys	His	Pro 260	Arg	Pro	Cys	Glu	Arg 265	Tyr	Asn	His	Gly	Thr 270
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Tyr	Lys	Tyr	Ile	Thr 290	Cys	Gln	Tyr	Gly	Glu 295	Trp	Phe	Pro	Ser	Tyr 300
Gln	Val	Tyr	Cys	Ile 305	Lys	Ser	Glu	Gln	Thr 310	Trp	Pro	Ser	Thr	His 315
Glu	Thr	Leu	Leu	Thr 320	Thr	Trp	Lys	Ile	Val 325	Ala	Phe	Thr	Ala	Thr 330
Ser	Val	Leu	Leu	Val 335	Leu	Leu	Leu	Val	Ile 340	Leu	Ala	Arg	Met	Phe 345
Gln	Thr	Lys	Phe	Lys 350	Ala	His	Phe	Pro	Pro 355	Arg	Gly	Pro	Pro	Arg 360
Ser	Ser	Ser	Ser	Asp 365	Pro	Asp	Phe	Val	Val 370	Val	Asp	Gly	Val	Pro 375
Val	Met	Leu	Pro	Ser 380	Tyr	Asp	Glu	Ala	Val 385	Ser	Gly	Gly	Leu	Ser 390
Ala	Leu	Gly	Pro	Gly 395	Tyr	Met	Ala	Ser	Val 400	Gly	Gln	Gly	Cys	Pro 405
Leu	Pro	Val	Asp	Asp 410	Gln	Ser	Pro	Pro	Ala 415	Tyr	Pro	Gly	Ser	Gly 420
Asp	Thr	Asp	Thr	Gly 425	Pro	Gly	Glu	Ser	Glu 430	Thr	Cys	Asp	Ser	Val 435
Ser	Gly	Ser	Ser	Glu 440	Leu	Leu	Gln	Ser	Leu 445	Tyr	Ser	Pro	Pro	Arg 450

P1618P2C3.txt

Cys Gln Glu Ser Thr His Pro Ala Ser Asp Asn Pro Asp Ile Ile
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Ala Ser Thr Ala Glu Glu Val Ala Ser Thr Ser Pro Gly Ile His
470 475 480

His Ala His Trp Val Leu Phe Leu Arg Asn
485 490

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<220>
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<212> DNA
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<400> 134
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<210> 135
<211> 50
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<220>
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<212> DNA
<213> Homo Sapien

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cccgccagcc cgctccaccg ccgtagcgcc cgagtgtcgg ggggagcacc 150
cgagtgcggc catgaggccg ggaaccgcgc tacaggccgt gctgctggcc 200
gtgctgctgg tggggctgcg ggccgcgacg ggctgcctgc tgagtgcctc 250
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P1618P2C3.txt

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 cagcatatca caatttagga actggtatgt ggatgagccg tcctgcggca 600
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 aacaaagcga agctgactta gctgagacct ggccagacct gaagaatatt 1100
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<213> Homo Sapien

<400> 137

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Asp Leu Asp Leu Arg Gly Gly Gln Pro Val Cys Arg Gly Gly Thr
          35          40          45
Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His Asp Thr Ser Arg
          50          55          60
Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg Arg Asp Gly
          65          70          75
Gly Gln Leu Val Ser Ile Glu Ser Glu Asp Glu Gln Lys Leu Ile
          80          85          90
Glu Lys Phe Ile Glu Asn Leu Leu Pro Ser Asp Gly Asp Phe Trp
          95          100          105
Ile Gly Leu Arg Arg Arg Glu Glu Lys Gln Ser Asn Ser Thr Ala
          110          115          120
Cys Gln Asp Leu Tyr Ala Trp Thr Asp Gly Ser Ile Ser Gln Phe
          125          130          135
Arg Asn Trp Tyr Val Asp Glu Pro Ser Cys Gly Ser Glu Val Cys
          140          145          150
Val Val Met Tyr His Gln Pro Ser Ala Pro Ala Gly Ile Gly Gly
          155          160          165
Pro Tyr Met Phe Gln Trp Asn Asp Asp Arg Cys Asn Met Lys Asn
          170          175          180
Asn Phe Ile Cys Lys Tyr Ser Asp Glu Lys Pro Ala Val Pro Ser
          185          190          195
Arg Glu Ala Glu Gly Glu Glu Thr Glu Leu Thr Thr Pro Val Leu
          200          205          210
Pro Glu Glu Thr Gln Glu Glu Asp Ala Lys Lys Thr Phe Lys Glu
          215          220          225
Ser Arg Glu Ala Ala Leu Asn Leu Ala Tyr Ile Leu Ile Pro Ser
          230          235          240
Ile Pro Leu Leu Leu Leu Leu Val Val Thr Thr Val Val Cys Trp
          245          250          255
Val Trp Ile Cys Arg Lys Arg Lys Arg Glu Gln Pro Asp Pro Ser
          260          265          270
Thr Lys Lys Gln His Thr Ile Trp Pro Ser Pro His Gln Gly Asn
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Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg Lys Gln Ser Glu
          290          295          300

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P1618P2C3.txt

Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe
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 Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp
 320 325 330
 Tyr Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr
 335 340 345
 Leu Val Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu
 350 355 360
 Phe Ser Pro Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val
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 Glu Asn Glu Ile Tyr Gly Tyr
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<210> 138

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 138

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<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 139

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<210> 140

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 140

cagtccaagc ataaagggtcc tggc 24

<210> 141

<211> 1514

<212> DNA

<213> Homo Sapien

<400> 141

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ctggatgtac gcatccgcag gttcccgcgg acttggggggc gcccgctgag 100

ccccggcgcc cgagaagac ttgtgtttgc ctctgcagc ctcaaccgg 150

P1618P2C3.txt

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 <211> 428
 <212> PRT
 <213> Homo Sapien

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 Page 87

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	35	40	45
Ser Leu Leu Lys	Leu Lys Met Val Gln	Val Val Phe Arg His	Gly
	50	55	60
Ala Arg Ser Pro	Leu Lys Pro Leu Pro	Leu Glu Glu Gln Val	Glu
	65	70	75
Trp Asn Pro Gln	Leu Leu Glu Val Pro	Pro Gln Thr Gln Phe	Asp
	80	85	90
Tyr Thr Val Thr	Asn Leu Ala Gly Gly	Pro Lys Pro Tyr Ser	Pro
	95	100	105
Tyr Asp Ser Gln	Tyr His Glu Thr Thr	Leu Lys Gly Gly Met	Phe
	110	115	120
Ala Gly Gln Leu	Thr Lys Val Gly Met	Gln Gln Met Phe Ala	Leu
	125	130	135
Gly Glu Arg Leu	Arg Lys Asn Tyr Val	Glu Asp Ile Pro Phe	Leu
	140	145	150
Ser Pro Thr Phe	Asn Pro Gln Glu Val	Phe Ile Arg Ser Thr	Asn
	155	160	165
Ile Phe Arg Asn	Leu Glu Ser Thr Arg	Cys Leu Leu Ala Gly	Leu
	170	175	180
Phe Gln Cys Gln	Lys Glu Gly Pro Ile	Ile Ile His Thr Asp	Glu
	185	190	195
Ala Asp Ser Glu	Val Leu Tyr Pro Asn	Tyr Gln Ser Cys Trp	Ser
	200	205	210
Leu Arg Gln Arg	Thr Arg Gly Arg Arg	Gln Thr Ala Ser Leu	Gln
	215	220	225
Pro Gly Ile Ser	Glu Asp Leu Lys Lys	Val Lys Asp Arg Met	Gly
	230	235	240
Ile Asp Ser Ser	Asp Lys Val Asp Phe	Phe Ile Leu Leu Asp	Asn
	245	250	255
Val Ala Ala Glu	Gln Ala His Asn Leu	Pro Ser Cys Pro Met	Leu
	260	265	270
Lys Arg Phe Ala	Arg Met Ile Glu Gln	Arg Ala Val Asp Thr	Ser
	275	280	285
Leu Tyr Ile Leu	Pro Lys Glu Asp Arg	Glu Ser Leu Gln Met	Ala
	290	295	300
Val Gly Pro Phe	Leu His Ile Leu Glu	Ser Asn Leu Leu Lys	Ala
	305	310	315
Met Asp Ser Ala	Thr Ala Pro Asp Lys	Ile Arg Lys Leu Tyr	Leu

P1618P2C3.txt

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Gly Ile Phe Asp	His Lys Trp Pro Pro Phe Ala Val Asp Leu	Thr
350	355	360
Met Glu Leu Tyr	Gln His Leu Glu Ser Lys Glu Trp Phe Val	Gln
365	370	375
Leu Tyr Tyr His	Gly Lys Glu Gln Val Pro Arg Gly Cys Pro	Asp
380	385	390
Gly Leu Cys Pro	Leu Asp Met Phe Leu Asn Ala Met Ser Val	Tyr
395	400	405
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410	415	420
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<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

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<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 144

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<210> 145

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 145

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<210> 146

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

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<400> 146
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<212> DNA
<213> Homo Sapien

<400> 147
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gctctgctat tctccttgat ctttgccatt tgcaccagac ctggattcct 150
agcgtctcca tctggagtgc ggctggtggg gggcctccac cgctgtgaag 200
ggcgggtgga ggtggaacag aaaggccagt ggggcaccgt gtgtgatgac 250
ggctgggaca ttaaggacgt ggctgtgttg tgccgggagc tgggctgtgg 300
agctgccagc ggaaccccta gtggtatfff gtatgagcca ccagcagaaa 350
aagagcaaaa ggtcctcatc caatcagtca gttgcacagg aacagaagat 400
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agatgctggg gcatcgtgtg agaaccaga gagctctttc tccccagtcc 500
cagaggggtgt caggctggct gacggccctg ggcattgcaa gggacgcgtg 550
gaagtgaagc accagaacca gtggtatacc gtgtgccaga caggctggag 600
cctccgggcc gcaaagggtg tgtgccggca gctgggatgt gggagggctg 650
tactgactca aaaacgctgc aacaagcatg cctatggccg aaaacccatc 700
tggctgagcc agatgtcatg ctcaggacga gaagcaaccc ttcaggattg 750
cccttctggg ccttggggga agaacacctg caaccatgat gaagacacgt 800
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ctctgctctg ggcgactgga ggtgctgcac aagggcgtat ggggctctgt 900
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atttactgtc tacatgactg catgggatga acactgatct tcttctgccc 1250
ttggactggg acttatactt ggtgccctg attctcaggc cttcagagtt 1300
ggatcagaac ttacaacatc aggtctagtt ctcaggccat cagacatagt 1350

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P1618P2C3.txt

ttggaactac atcaccacct ttcctatgtc tccacattgc acacagcaga 1400
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 cacacacaca cacacacaca cacacacaca cacacatata ccatttgtcc 1500
 tgtttctctg aagaactctg acaaaatata gattttggta ctgaaagaga 1550
 ttctagagga acggaatttt aaggataaat tttctgaatt ggttatgggg 1600
 tttctgaaat tggctctata atctaattag atataaaatt ctggtaactt 1650
 tatttacaat aataaagata gcactatgtg ttcaaa 1686

<210> 148
 <211> 347
 <212> PRT
 <213> Homo Sapien

<400> 148
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 Gly Phe Leu Ala Ser Pro Ser Gly Val Arg Leu Val Gly Gly Leu
 20 25 30
 His Arg Cys Glu Gly Arg Val Glu Val Glu Gln Lys Gly Gln Trp
 35 40 45
 Gly Thr Val Cys Asp Asp Gly Trp Asp Ile Lys Asp Val Ala Val
 50 55 60
 Leu Cys Arg Glu Leu Gly Cys Gly Ala Ala Ser Gly Thr Pro Ser
 65 70 75
 Gly Ile Leu Tyr Glu Pro Pro Ala Glu Lys Glu Gln Lys Val Leu
 80 85 90
 Ile Gln Ser Val Ser Cys Thr Gly Thr Glu Asp Thr Leu Ala Gln
 95 100 105
 Cys Glu Gln Glu Glu Val Tyr Asp Cys Ser His Asp Glu Asp Ala
 110 115 120
 Gly Ala Ser Cys Glu Asn Pro Glu Ser Ser Phe Ser Pro Val Pro
 125 130 135
 Glu Gly Val Arg Leu Ala Asp Gly Pro Gly His Cys Lys Gly Arg
 140 145 150
 Val Glu Val Lys His Gln Asn Gln Trp Tyr Thr Val Cys Gln Thr
 155 160 165
 Gly Trp Ser Leu Arg Ala Ala Lys Val Val Cys Arg Gln Leu Gly
 170 175 180
 Cys Gly Arg Ala Val Leu Thr Gln Lys Arg Cys Asn Lys His Ala
 185 190 195
 Tyr Gly Arg Lys Pro Ile Trp Leu Ser Gln Met Ser Cys Ser Gly
 200 205 210

P1618P2C3.txt

Arg	Glu	Ala	Thr	Leu	Gln	Asp	Cys	Pro	Ser	Gly	Pro	Trp	Gly	Lys
				215					220					225
Asn	Thr	Cys	Asn	His	Asp	Glu	Asp	Thr	Trp	Val	Glu	Cys	Glu	Asp
				230					235					240
Pro	Phe	Asp	Leu	Arg	Leu	Val	Gly	Gly	Asp	Asn	Leu	Cys	Ser	Gly
				245					250					255
Arg	Leu	Glu	Val	Leu	His	Lys	Gly	Val	Trp	Gly	Ser	Val	Cys	Asp
				260					265					270
Asp	Asn	Trp	Gly	Glu	Lys	Glu	Asp	Gln	Val	Val	Cys	Lys	Gln	Leu
				275					280					285
Gly	Cys	Gly	Lys	Ser	Leu	Ser	Pro	Ser	Phe	Arg	Asp	Arg	Lys	Cys
				290					295					300
Tyr	Gly	Pro	Gly	Val	Gly	Arg	Ile	Trp	Leu	Asp	Asn	Val	Arg	Cys
				305					310					315
Ser	Gly	Glu	Glu	Gln	Ser	Leu	Glu	Gln	Cys	Gln	His	Arg	Phe	Trp
				320					325					330
Gly	Phe	His	Asp	Cys	Thr	His	Gln	Glu	Asp	Val	Ala	Val	Ile	Cys
				335					340					345

Ser Val

<210> 149
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 149
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<210> 150
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 150
 ggctcatata aaataccact aggg 24

<210> 151
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 151
 gggcctccac cgctgtgaag ggcgggtgga ggtggaacag aaaggccagt 50

<210> 152
<211> 1427
<212> DNA
<213> Homo Sapien

<400> 152
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gctaccagga agagtctgcc gaaggatgaag gccatggact tcatcacctc 150
cacagccatc ctgcccctgc tgttcggctg cctgggagtc ttcggcctct 200
tccggctgct gcagtgggtg cgcgggaagg cctacctgcg gaatgctgtg 250
gtggtgatca caggcgccac ctgaggctg ggcaaagaat gtgcaaaagt 300
cttctatgct gcgggtgcta aactggtgct ctgtggccgg aatggtgggg 350
ccctagaaga gtcacatcga gaacttaccg cttctcatgc caccaagggtg 400
cagacacaca agccttactt ggtgaccttc gacctcacag actctggggc 450
catagtgtga gcagcagctg agatcctgca gtgctttggc tatgtcgaca 500
tacttgtcaa caatgctggg atcagctacc gtggtaccat catggacacc 550
acagtggatg tggacaagag ggtcatggag acaaactact ttggcccagt 600
tgctctaacg aaagcactcc tgccctccat gatcaagagg aggcaaggcc 650
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tcagcatatg cagcctccaa gcacgcaacc caggctttct ttgactgtct 750
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gtgcagatct gctggcagag gacaatcaaa aacgacaaca agcttcttcc 1250
cagggtgagg ggaaacactt aaggaataaa tatggagctg gggtttaaca 1300
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ggccgcgact ctagagtcga cctgcagaag cttggccgcc atggcccaac 1400
ttgtttattg cagcttataa tggttac 1427

P1618P2C3.txt

<210> 153
 <211> 310
 <212> PRT
 <213> Homo Sapien

<400> 153
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 20 25 30
 Gly Lys Ala Tyr Leu Arg Asn Ala Val Val Ile Thr Gly Ala
 35 40 45
 Thr Ser Gly Leu Gly Lys Glu Cys Ala Lys Val Phe Tyr Ala Ala
 50 55 60
 Gly Ala Lys Leu Val Leu Cys Gly Arg Asn Gly Gly Ala Leu Glu
 65 70 75
 Glu Leu Ile Arg Glu Leu Thr Ala Ser His Ala Thr Lys Val Gln
 80 85 90
 Thr His Lys Pro Tyr Leu Val Thr Phe Asp Leu Thr Asp Ser Gly
 95 100 105
 Ala Ile Val Ala Ala Ala Ala Glu Ile Leu Gln Cys Phe Gly Tyr
 110 115 120
 Val Asp Ile Leu Val Asn Asn Ala Gly Ile Ser Tyr Arg Gly Thr
 125 130 135
 Ile Met Asp Thr Thr Val Asp Val Asp Lys Arg Val Met Glu Thr
 140 145 150
 Asn Tyr Phe Gly Pro Val Ala Leu Thr Lys Ala Leu Leu Pro Ser
 155 160 165
 Met Ile Lys Arg Arg Gln Gly His Ile Val Ala Ile Ser Ser Ile
 170 175 180
 Gln Gly Lys Met Ser Ile Pro Phe Arg Ser Ala Tyr Ala Ala Ser
 185 190 195
 Lys His Ala Thr Gln Ala Phe Phe Asp Cys Leu Arg Ala Glu Met
 200 205 210
 Glu Gln Tyr Glu Ile Glu Val Thr Val Ile Ser Pro Gly Tyr Ile
 215 220 225
 His Thr Asn Leu Ser Val Asn Ala Ile Thr Ala Asp Gly Ser Arg
 230 235 240
 Tyr Gly Val Met Asp Thr Thr Thr Ala Gln Gly Arg Ser Pro Val
 245 250 255
 Glu Val Ala Gln Asp Val Leu Ala Ala Val Gly Lys Lys Lys Lys
 260 265 270
 Asp Val Ile Leu Ala Asp Leu Leu Pro Ser Leu Ala Val Tyr Leu
 275 280 285

P1618P2C3.txt

Arg Thr Leu Ala Pro Gly Leu Phe Phe Ser Leu Met Ala Ser Arg
290 295 300

Ala Arg Lys Glu Arg Lys Ser Lys Asn Ser
305 310

<210> 154

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 154

ggtgctaaac tggctctctg tggc 24

<210> 155

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 155

cagggcaaga tgagcattcc 20

<210> 156

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 156

tcatactggt ccatctcggc acgc 24

<210> 157

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 157

aatggtgggg ccctagaaga gctcatcaga gaactcaccg cttctcatgc 50

<210> 158

<211> 1771

<212> DNA

<213> Homo Sapien

<400> 158

cccacgcgtc cgctggtggt agatcgagca accctctaaa agcagtttag 50

agtggtaaaa aaaaaaaaaa acacacaaa cgctcgcagc cacaaaagg 100

atgaaatttc ttctggacat cctcctgctt ctcccgttac tgatcgtctg 150

P1618P2C3.txt

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 ctgactgcct atgaatttgc taaacttaaa agcaagctgg ttctctggga 300
 tataaataag catggactgg aggaaacagc tgccaaatgc aagggactgg 350
 gtgccaaggt tcataccttt gtggtagact gcagcaaccg agaagatatt 400
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 agtaaataat gctggtgtag tctatacatc agatttgttt gctacacaag 500
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 aacattggaa aggatccttc ctgagcgttt cctggcagtt ttaaaacgaa 950
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 gccactctgt ttcttgagag atacctcaca ttccaatgcc aaacatttct 1550
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 ctgggattta aggagaattg agagaatgta cccacaaatg gcagcaataa 1650
 taaatggatc acacttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1700
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1750

P1618P2C3.txt

aaaaaaaaa aaaaaaaaa a 1771

<210> 159
<211> 300
<212> PRT
<213> Homo Sapien

<400> 159

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				20					25					30
Arg	Lys	Ser	Val	Thr	Gly	Glu	Ile	Val	Leu	Ile	Thr	Gly	Ala	Gly
				35					40					45
His	Gly	Ile	Gly	Arg	Leu	Thr	Ala	Tyr	Glu	Phe	Ala	Lys	Leu	Lys
				50					55					60
Ser	Lys	Leu	Val	Leu	Trp	Asp	Ile	Asn	Lys	His	Gly	Leu	Glu	Glu
				65					70					75
Thr	Ala	Ala	Lys	Cys	Lys	Gly	Leu	Gly	Ala	Lys	Val	His	Thr	Phe
				80					85					90
Val	Val	Asp	Cys	Ser	Asn	Arg	Glu	Asp	Ile	Tyr	Ser	Ser	Ala	Lys
				95					100					105
Lys	Val	Lys	Ala	Glu	Ile	Gly	Asp	Val	Ser	Ile	Leu	Val	Asn	Asn
				110					115					120
Ala	Gly	Val	Val	Tyr	Thr	Ser	Asp	Leu	Phe	Ala	Thr	Gln	Asp	Pro
				125					130					135
Gln	Ile	Glu	Lys	Thr	Phe	Glu	Val	Asn	Val	Leu	Ala	His	Phe	Trp
				140					145					150
Thr	Thr	Lys	Ala	Phe	Leu	Pro	Ala	Met	Thr	Lys	Asn	Asn	His	Gly
				155					160					165
His	Ile	Val	Thr	Val	Ala	Ser	Ala	Ala	Gly	His	Val	Ser	Val	Pro
				170					175					180
Phe	Leu	Leu	Ala	Tyr	Cys	Ser	Ser	Lys	Phe	Ala	Ala	Val	Gly	Phe
				185					190					195
His	Lys	Thr	Leu	Thr	Asp	Glu	Leu	Ala	Ala	Leu	Gln	Ile	Thr	Gly
				200					205					210
Val	Lys	Thr	Thr	Cys	Leu	Cys	Pro	Asn	Phe	Val	Asn	Thr	Gly	Phe
				215					220					225
Ile	Lys	Asn	Pro	Ser	Thr	Ser	Leu	Gly	Pro	Thr	Leu	Glu	Pro	Glu
				230					235					240
Glu	Val	Val	Asn	Arg	Leu	Met	His	Gly	Ile	Leu	Thr	Glu	Gln	Lys
				245					250					255
Met	Ile	Phe	Ile	Pro	Ser	Ser	Ile	Ala	Phe	Leu	Thr	Thr	Leu	Glu
				260					265					270

P1618P2C3.txt

Arg Ile Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile
275 280 285

Ser Val Lys Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln
290 295 300

<210> 160
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 160
ggtgaaggca gaaattggag atg 23

<210> 161
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 161
atcccatgca tcagcctggt tacc 24

<210> 162
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 162
gctggtgtag tctatacatc agatttggtt gctacacaag atcctcag 48

<210> 163
<211> 2076
<212> DNA
<213> Homo Sapien

<400> 163
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cgcccgcggc tcagggagga gcaccgactg cgccgcaccc tgagagatgg 100
ttggtgccat gtggaagggtg attgtttcgc tggtcctggt gatgcctggc 150
ccctgtgatg ggctgtttcg ctccctatac agaagtgttt ccatgccacc 200
taagggagac tcaggacagc cattatttct cacccttac attgaagctg 250
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ctgaacatga agagttatgc cggcttcctc accgtgaata agacttaca 350
cagcaacctc ttcttctggt tttcccagc tcagatacag ccagaagatg 400
ccccagtagt tctctggcta cagggtgggc cgggaggttc atccatgttt 450

P1618P2C3.txt

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 gtttttccag atatttcctg aatataaaaa taatgacttt tatgtcactg 700
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 tccctcaacc ctgtgagaga ggtgaagatc aacctgaacg gaattgctat 800
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 ggaataaaaa aattatcttt tcatatctgc aagatttttt tcatcaataa 1650
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 aagtttgga tgccgtgaag gtgtttggaa atattattgg ataagaatag 1950
 ctcaattatc ccaaataaat ggatgaagct ataatagttt tggggaaaag 2000
 attctcaaat gtataaagtc ttagaacaaa agaattcttt gaaataaaaa 2050

tattatatat aaaagtaaaa aaaaaa 2076

<210> 164

<211> 476

<212> PRT

<213> Homo Sapien

<400> 164

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          20          25          30
Val Ser Met Pro Pro Lys Gly Asp Ser Gly Gln Pro Leu Phe Leu
          35          40          45
Thr Pro Tyr Ile Glu Ala Gly Lys Ile Gln Lys Gly Arg Glu Leu
          50          55          60
Ser Leu Val Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala
          65          70          75
Gly Phe Leu Thr Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe
          80          85          90
Trp Phe Phe Pro Ala Gln Ile Gln Pro Glu Asp Ala Pro Val Val
          95          100          105
Leu Trp Leu Gln Gly Gly Pro Gly Gly Ser Ser Met Phe Gly Leu
          110          115          120
Phe Val Glu His Gly Pro Tyr Val Val Thr Ser Asn Met Thr Leu
          125          130          135
Arg Asp Arg Asp Phe Pro Trp Thr Thr Thr Leu Ser Met Leu Tyr
          140          145          150
Ile Asp Asn Pro Val Gly Thr Gly Phe Ser Phe Thr Asp Asp Thr
          155          160          165
His Gly Tyr Ala Val Asn Glu Asp Asp Val Ala Arg Asp Leu Tyr
          170          175          180
Ser Ala Leu Ile Gln Phe Phe Gln Ile Phe Pro Glu Tyr Lys Asn
          185          190          195
Asn Asp Phe Tyr Val Thr Gly Glu Ser Tyr Ala Gly Lys Tyr Val
          200          205          210
Pro Ala Ile Ala His Leu Ile His Ser Leu Asn Pro Val Arg Glu
          215          220          225
Val Lys Ile Asn Leu Asn Gly Ile Ala Ile Gly Asp Gly Tyr Ser
          230          235          240
Asp Pro Glu Ser Ile Ile Gly Gly Tyr Ala Glu Phe Leu Tyr Gln
          245          250          255
Ile Gly Leu Leu Asp Glu Lys Gln Lys Lys Tyr Phe Gln Lys Gln
          260          265          270

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P1618P2C3.txt

Cys	His	Glu	Cys	Ile	Glu	His	Ile	Arg	Lys	Gln	Asn	Trp	Phe	Glu
				275					280					285
Ala	Phe	Glu	Ile	Leu	Asp	Lys	Leu	Leu	Asp	Gly	Asp	Leu	Thr	Ser
				290					295					300
Asp	Pro	Ser	Tyr	Phe	Gln	Asn	Val	Thr	Gly	Cys	Ser	Asn	Tyr	Tyr
				305					310					315
Asn	Phe	Leu	Arg	Cys	Thr	Glu	Pro	Glu	Asp	Gln	Leu	Tyr	Tyr	Val
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Lys	Phe	Leu	Ser	Leu	Pro	Glu	Val	Arg	Gln	Ala	Ile	His	Val	Gly
				335					340					345
Asn	Gln	Thr	Phe	Asn	Asp	Gly	Thr	Ile	Val	Glu	Lys	Tyr	Leu	Arg
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Glu	Asp	Thr	Val	Gln	Ser	Val	Lys	Pro	Trp	Leu	Thr	Glu	Ile	Met
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Asn	Asn	Tyr	Lys	Val	Leu	Ile	Tyr	Asn	Gly	Gln	Leu	Asp	Ile	Ile
				380					385					390
Val	Ala	Ala	Ala	Leu	Thr	Glu	Arg	Ser	Leu	Met	Gly	Met	Asp	Trp
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Lys	Gly	Ser	Gln	Glu	Tyr	Lys	Lys	Ala	Glu	Lys	Lys	Val	Trp	Lys
				410					415					420
Ile	Phe	Lys	Ser	Asp	Ser	Glu	Val	Ala	Gly	Tyr	Ile	Arg	Gln	Ala
				425					430					435
Gly	Asp	Phe	His	Gln	Val	Ile	Ile	Arg	Gly	Gly	Gly	His	Ile	Leu
				440					445					450
Pro	Tyr	Asp	Gln	Pro	Leu	Arg	Ala	Phe	Asp	Met	Ile	Asn	Arg	Phe
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Ile	Tyr	Gly	Lys	Gly	Trp	Asp	Pro	Tyr	Val	Gly				
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<220>

<223> Synthetic Oligonucleotide Probe

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P1618P2C3.txt

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<220>
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<210> 168
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<212> DNA
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<220>
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<213> Homo Sapien

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agctagtgat caggggttct tcttgctgga gaagaaaggg ctgagggcag 150
agcagggcac tctcactcag ggtgaccagc tccttgccctc tctgtggata 200
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tcatgtgagg gccaaccggg gaaggtggag cagatgagca cacacaggag 800
ccgtctctc accgccgcc ctctcagcat ggaacagagg cagccctggc 850

P1618P2C3.txt

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ggcaacctga ccatccaggt ggctcataag acagggccag aagaggacaa 1100
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P1618P2C3.txt

ttaagaaggt acatctgcaa aagcaaa 2477

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<212> PRT
<213> Homo Sapien

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35 40 45
Arg Leu Leu Thr Ala Ala Pro Leu Ser Met Glu Gln Arg Gln Pro
50 55 60
Trp Pro Arg Ala Leu Glu Val Asp Ser Arg Ser Val Val Leu Leu
65 70 75
Ser Val Val Trp Val Leu Leu Ala Pro Pro Ala Ala Gly Met Pro
80 85 90
Gln Phe Ser Thr Phe His Ser Glu Asn Arg Asp Trp Thr Phe Asn
95 100 105
His Leu Thr Val His Gln Gly Thr Gly Ala Val Tyr Val Gly Ala
110 115 120
Ile Asn Arg Val Tyr Lys Leu Thr Gly Asn Leu Thr Ile Gln Val
125 130 135
Ala His Lys Thr Gly Pro Glu Glu Asp Asn Lys Ser Arg Tyr Pro
140 145 150
Pro Leu Ile Val Gln Pro Cys Ser Glu Val Leu Thr Leu Thr Asn
155 160 165
Asn Val Asn Lys Leu Leu Ile Ile Asp Tyr Ser Glu Asn Arg Leu
170 175 180
Leu Ala Cys Gly Ser Leu Tyr Gln Gly Val Cys Lys Leu Leu Arg
185 190 195
Leu Asp Asp Leu Phe Ile Leu Val Glu Pro Ser His Lys Lys Glu
200 205 210
His Tyr Leu Ser Ser Val Asn Lys Thr Gly Thr Met Tyr Gly Val
215 220 225
Ile Val Arg Ser Glu Gly Glu Asp Gly Lys Leu Phe Ile Gly Thr
230 235 240
Ala Val Asp Gly Lys Gln Asp Tyr Phe Pro Thr Leu Ser Ser Arg
245 250 255
Lys Leu Pro Arg Asp Pro Glu Ser Ser Ala Met Leu Asp Tyr Glu
260 265 270

P1618P2C3.txt

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				305					310					315	
Thr	Pro	Glu	Gly	Val	Ala	Ile	Asn	Ser	Ala	Gly	Asp	Leu	Phe	Tyr	
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Thr	Ser	Arg	Ile	Val	Arg	Leu	Cys	Lys	Asp	Asp	Pro	Lys	Phe	His	
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Tyr	Arg	Leu	Leu	Gln	Ala	Ala	Tyr	Leu	Ala	Lys	Pro	Gly	Asp	Ser	
				365					370					375	
Leu	Ala	Gln	Ala	Phe	Asn	Ile	Thr	Ser	Gln	Asp	Asp	Val	Leu	Phe	
				380					385					390	
Ala	Ile	Phe	Ser	Lys	Gly	Gln	Lys	Gln	Tyr	His	His	Pro	Pro	Asp	
				395					400					405	
Asp	Ser	Ala	Leu	Cys	Ala	Phe	Pro	Ile	Arg	Ala	Ile	Asn	Leu	Gln	
				410					415					420	
Ile	Lys	Glu	Arg	Leu	Gln	Ser	Cys	Tyr	Gln	Gly	Glu	Gly	Asn	Leu	
				425					430					435	
Glu	Leu	Asn	Trp	Leu	Leu	Gly	Lys	Asp	Val	Gln	Cys	Thr	Lys	Ala	
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Pro	Val	Pro	Ile	Asp	Asp	Asn	Phe	Cys	Gly	Leu	Asp	Ile	Asn	Gln	
				455					460					465	
Pro	Leu	Gly	Gly	Ser	Thr	Pro	Val	Glu	Gly	Leu	Thr	Leu	Tyr	Thr	
				470					475					480	
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Lys	Val	Arg	Val	Tyr	Glu	Phe	Arg	Cys	Ser	Asn	Ala	Ile	His	Leu	
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<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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<400> 172
cttctgccct ttggagaaga tggc 24

<210> 173
<211> 43
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<220>
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<400> 173
ggactcactg gccaggcct tcaatatac cagccaggac gat 43

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<213> Homo Sapien

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<223> unknown base

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P1618P2C3.txt

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P1618P2C3.txt

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<212> PRT
<213> Homo Sapien

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<223> unknown amino acid

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35 40 45
Gly Leu Gln Ala Lys Gly Trp Asn Phe Met Leu Glu Asp Ser Thr
50 55 60
Phe Trp Ile Phe Gly Gly Ser Ile His Tyr Phe Arg Val Pro Arg
65 70 75

P1618P2C3.txt

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Arg	Gly	Lys	Phe	Asp 110	Phe	Ser	Gly	Asn	Leu 115	Asp	Leu	Glu	Ala	Phe 120
Val	Leu	Met	Ala	Ala 125	Glu	Ile	Gly	Leu	Trp 130	Val	Ile	Leu	Arg	Pro 135
Gly	Pro	Tyr	Ile	Cys 140	Ser	Glu	Met	Asp	Leu 145	Gly	Gly	Leu	Pro	Ser 150
Trp	Leu	Leu	Gln	Asp 155	Pro	Gly	Met	Arg	Leu 160	Arg	Thr	Thr	Tyr	Lys 165
Gly	Phe	Thr	Glu	Ala 170	Val	Asp	Leu	Tyr	Phe 175	Asp	His	Leu	Met	Ser 180
Arg	Val	Val	Pro	Leu 185	Gln	Tyr	Lys	Arg	Gly 190	Gly	Pro	Ile	Ile	Ala 195
Val	Gln	Val	Glu	Asn 200	Glu	Tyr	Gly	Ser	Tyr 205	Asn	Lys	Asp	Pro	Ala 210
Tyr	Met	Pro	Tyr	Val 215	Lys	Lys	Ala	Leu	Glu 220	Asp	Arg	Gly	Ile	Val 225
Glu	Leu	Leu	Leu	Thr 230	Ser	Asp	Asn	Lys	Asp 235	Gly	Leu	Ser	Lys	Gly 240
Ile	Val	Gln	Gly	Val 245	Leu	Ala	Thr	Ile	Asn 250	Leu	Gln	Ser	Thr	His 255
Glu	Leu	Gln	Leu	Leu 260	Thr	Thr	Phe	Leu	Phe 265	Asn	Val	Gln	Gly	Thr 270
Gln	Pro	Lys	Met	Val 275	Met	Glu	Tyr	Trp	Thr 280	Gly	Trp	Phe	Asp	Ser 285
Trp	Gly	Gly	Pro	His 290	Asn	Ile	Leu	Asp	Ser 295	Ser	Glu	Val	Leu	Lys 300
Thr	Val	Ser	Ala	Ile 305	Val	Asp	Ala	Gly	Ser 310	Ser	Ile	Asn	Leu	Tyr 315
Met	Phe	His	Gly	Gly 320	Thr	Asn	Phe	Gly	Phe 325	Met	Asn	Gly	Ala	Met 330
His	Phe	His	Asp	Tyr 335	Lys	Ser	Asp	Val	Thr 340	Ser	Tyr	Asp	Tyr	Asp 345
Ala	Val	Leu	Thr	Glu 350	Ala	Gly	Asp	Tyr	Thr 355	Ala	Lys	Tyr	Met	Lys 360
Leu	Arg	Asp	Phe	Phe 365	Gly	Ser	Ile	Ser	Gly 370	Ile	Pro	Leu	Pro	Pro 375
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P1618P2C3.txt

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Asn	Gly	Gly	Asn	Gly	Gln	Ser	Phe	Gly	Tyr	Ile	Leu	Tyr	Glu	Thr
				425					430					435
Ser	Ile	Thr	Ser	Ser	Gly	Ile	Leu	Ser	Gly	His	Val	His	Asp	Arg
				440					445					450
Gly	Gln	Val	Phe	Val	Asn	Thr	Val	Ser	Ile	Gly	Phe	Leu	Asp	Tyr
				455					460					465
Lys	Thr	Thr	Lys	Ile	Ala	Val	Pro	Leu	Ile	Gln	Gly	Tyr	Thr	Val
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				485					490					495
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Leu	Pro	Glu	Thr	Pro	Thr	Leu	Pro	Ala	Phe	Phe	Leu	Gly	Ser	Leu
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Trp	Glu	Lys	Gly	Val	Val	Phe	Ile	Asn	Gly	Gln	Asn	Leu	Gly	Arg
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Tyr	Trp	Asn	Ile	Gly	Pro	Gln	Lys	Thr	Leu	Tyr	Leu	Pro	Gly	Pro
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Trp	Leu	Ser	Ser	Gly	Ile	Asn	Gln	Val	Ile	Val	Phe	Glu	Glu	Thr
				605					610					615
Met	Ala	Gly	Pro	Ala	Leu	Gln	Phe	Thr	Glu	Thr	Pro	His	Leu	Gly
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 agacgcaggc acctacgcca aaggggagca aagccgggct cggcccagg 150
 Page 110

P1618P2C3.txt

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P1618P2C3.txt

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 35 40 45
 Phe Arg Tyr Val Ser Gly Ser Leu His Tyr Phe Arg Val Pro Arg
 50 55 60
 Val Leu Trp Ala Asp Arg Leu Leu Lys Met Arg Trp Ser Gly Leu
 65 70 75
 Asn Ala Ile Gln Phe Tyr Val Pro Trp Asn Tyr His Glu Pro Gln
 80 85 90
 Pro Gly Val Tyr Asn Phe Asn Gly Ser Arg Asp Leu Ile Ala Phe
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 Leu Asn Glu Ala Ala Leu Ala Asn Leu Leu Val Ile Leu Arg Pro
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P1618P2C3.txt

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Asp	Phe	Leu	Ala	Ala	Val	Asp	Ser	Trp	Phe	Lys	Val	Leu	Leu	Pro
				155					160					165
Lys	Ile	Tyr	Pro	Trp	Leu	Tyr	His	Asn	Gly	Gly	Asn	Ile	Ile	Ser
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Ile	Gln	Val	Glu	Asn	Glu	Tyr	Gly	Ser	Tyr	Arg	Ala	Cys	Asp	Phe
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Ser	Tyr	Met	Arg	His	Leu	Ala	Gly	Leu	Phe	Arg	Ala	Leu	Leu	Gly
				200					205					210
Glu	Lys	Ile	Leu	Leu	Phe	Thr	Thr	Asp	Gly	Pro	Glu	Gly	Leu	Lys
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Cys	Gly	Ser	Leu	Arg	Gly	Leu	Tyr	Thr	Thr	Val	Asp	Phe	Gly	Pro
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Ala	Asp	Asn	Met	Thr	Lys	Ile	Phe	Thr	Leu	Leu	Arg	Lys	Tyr	Glu
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Pro	His	Gly	Pro	Leu	Val	Asn	Ser	Glu	Tyr	Tyr	Thr	Gly	Trp	Leu
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Asp	Tyr	Trp	Gly	Gln	Asn	His	Ser	Thr	Arg	Ser	Val	Ser	Ala	Val
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Thr	Lys	Gly	Leu	Glu	Asn	Met	Leu	Lys	Leu	Gly	Ala	Ser	Val	Asn
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Ala	Asp	Lys	Lys	Gly	Arg	Phe	Leu	Pro	Ile	Thr	Thr	Ser	Tyr	Asp
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Tyr	Asp	Ala	Pro	Ile	Ser	Glu	Ala	Gly	Asp	Pro	Thr	Pro	Lys	Leu
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Phe	Ala	Leu	Arg	Asp	Val	Ile	Ser	Lys	Phe	Gln	Glu	Val	Pro	Leu
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Gly	Pro	Leu	Pro	Pro	Pro	Ser	Pro	Lys	Met	Met	Leu	Gly	Pro	Val
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Thr	Leu	His	Leu	Val	Gly	His	Leu	Leu	Ala	Phe	Leu	Asp	Leu	Leu
				380					385					390
Cys	Pro	Arg	Gly	Pro	Ile	His	Ser	Ile	Leu	Pro	Met	Thr	Phe	Glu
				395					400					405
Ala	Val	Lys	Gln	Asp	His	Gly	Phe	Met	Leu	Tyr	Arg	Thr	Tyr	Met
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Thr	His	Thr	Ile	Phe	Glu	Pro	Thr	Pro	Phe	Trp	Val	Pro	Asn	Asn
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P1618P2C3.txt

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Leu Ser Phe Gly	Ser 485	Asn Ser Ser Asp	Phe 490	Lys Gly Leu Leu	Lys 495
Pro Pro Ile Leu	Gly 500	Gln Thr Ile Leu	Thr 505	Gln Trp Met Met	Phe 510
Pro Leu Lys Ile	Asp 515	Asn Leu Val Lys	Trp 520	Trp Phe Pro Leu	Gln 525
Leu Pro Lys Trp	Pro 530	Tyr Pro Gln Ala	Pro 535	Ser Gly Pro Thr	Phe 540
Tyr Ser Lys Thr	Phe 545	Pro Ile Leu Gly	Ser 550	Val Gly Asp Thr	Phe 555
Leu Tyr Leu Pro	Gly 560	Trp Thr Lys Gly	Gln 565	Val Trp Ile Asn	Gly 570
Phe Asn Leu Gly	Arg 575	Tyr Trp Thr Lys	Gln 580	Gly Pro Gln Gln	Thr 585
Leu Tyr Val Pro	Arg 590	Phe Leu Leu Phe	Pro 595	Arg Gly Ala Leu	Asn 600
Lys Ile Thr Leu	Leu 605	Glu Leu Glu Asp	Val 610	Pro Leu Gln Pro	Gln 615
Val Gln Phe Leu	Asp 620	Lys Pro Ile Leu	Asn 625	Ser Thr Ser Thr	Leu 630
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<211> 50

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<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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<210> 181

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 181

ccagctatga ctatgatgca cc 22

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<211> 24

<212> DNA

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<223> Synthetic Oligonucleotide Probe

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<211> 50

<212> DNA

<213> Artificial Sequence

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<210> 184

<211> 1947

<212> DNA

<213> Homo Sapien

<400> 184

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gtatttgagt gcaccacaa tatggcttac atgttgaaaa agcttctcat 100

cagttacata tccattatct gtgtttatgg ctttatctgc ctctacactc 150

tcttctgggt attcaggata cctttgaagg aatattcttt cgaaaaagtc 200

P1618P2C3.txt

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P1618P2C3.txt

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agtaaagat taaattgaca ttttcttact aaaaaaaaaa aaaaaaa 1947

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<212> PRT
<213> Homo Sapien

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Glu Ser Ser Phe Ser Asp Ile Pro Asp Val Lys Asn Asp Phe Ala
50 55 60
Phe Leu Leu His Met Val Asp Gln Tyr Asp Gln Leu Tyr Ser Lys
65 70 75
Arg Phe Gly Val Phe Leu Ser Glu Val Ser Glu Asn Lys Leu Arg
80 85 90
Glu Ile Ser Leu Asn His Glu Trp Thr Phe Glu Lys Leu Arg Gln
95 100 105
His Ile Ser Arg Asn Ala Gln Asp Lys Gln Glu Leu His Leu Phe
110 115 120
Met Leu Ser Gly Val Pro Asp Ala Val Phe Asp Leu Thr Asp Leu
125 130 135
Asp Val Leu Lys Leu Glu Leu Ile Pro Glu Ala Lys Ile Pro Ala
140 145 150
Lys Ile Ser Gln Met Thr Asn Leu Gln Glu Leu His Leu Cys His
155 160 165
Cys Pro Ala Lys Val Glu Gln Thr Ala Phe Ser Phe Leu Arg Asp
170 175 180
His Leu Arg Cys Leu His Val Lys Phe Thr Asp Val Ala Glu Ile
185 190 195
Pro Ala Trp Val Tyr Leu Leu Lys Asn Leu Arg Glu Leu Tyr Leu
200 205 210
Ile Gly Asn Leu Asn Ser Glu Asn Asn Lys Met Ile Gly Leu Glu
215 220 225
Ser Leu Arg Glu Leu Arg His Leu Lys Ile Leu His Val Lys Ser
230 235 240
Asn Leu Thr Lys Val Pro Ser Asn Ile Thr Asp Val Ala Pro His
245 250 255

P1618P2C3.txt

Leu Thr Lys Leu Val Ile His Asn Asp Gly Thr Lys Leu Leu Val
 260 265 270
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 275 280 285
 Gln Asn Cys Glu Leu Glu Arg Ile Pro His Ala Ile Phe Ser Leu
 290 295 300
 Ser Asn Leu Gln Glu Leu Asp Leu Lys Ser Asn Asn Ile Arg Thr
 305 310 315
 Ile Glu Glu Ile Ile Ser Phe Gln His Leu Lys Arg Leu Thr Cys
 320 325 330
 Leu Lys Leu Trp His Asn Lys Ile Val Thr Ile Pro Pro Ser Ile
 335 340 345
 Thr His Val Lys Asn Leu Glu Ser Leu Tyr Phe Ser Asn Asn Lys
 350 355 360
 Leu Glu Ser Leu Pro Val Ala Val Phe Ser Leu Gln Lys Leu Arg
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 Cys Leu Asp Val Ser Tyr Asn Asn Ile Ser Met Ile Pro Ile Glu
 380 385 390
 Ile Gly Leu Leu Gln Asn Leu Gln His Leu His Ile Thr Gly Asn
 395 400 405
 Lys Val Asp Ile Leu Pro Lys Gln Leu Phe Lys Cys Ile Lys Leu
 410 415 420
 Arg Thr Leu Asn Leu Gly Gln Asn Cys Ile Thr Ser Leu Pro Glu
 425 430 435
 Lys Val Gly Gln Leu Ser Gln Leu Thr Gln Leu Glu Leu Lys Gly
 440 445 450
 Asn Cys Leu Asp Arg Leu Pro Ala Gln Leu Gly Gln Cys Arg Met
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<223> Synthetic Oligonucleotide Probe

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P1618P2C3.txt

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20 25 30
Ser Cys Thr Val Ser Leu Gly Gly Ala Asn Met Ala Glu Thr His
35 40 45
Lys Ala Met Ile Leu Gln Leu Asn Pro Ser Glu Asn Cys Thr Trp
50 55 60
Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg Ile Ile Phe Ser
65 70 75
Tyr Val Gln Leu Asp Pro Asp Gly Ser Cys Glu Ser Glu Asn Ile
80 85 90
Lys Val Phe Asp Gly Thr Ser Ser Asn Gly Pro Leu Leu Gly Gln
95 100 105
Val Cys Ser Lys Asn Asp Tyr Val Pro Val Phe Glu Ser Ser Ser
110 115 120
Ser Thr Leu Thr Phe Gln Ile Val Thr Asp Ser Ala Arg Ile Gln
125 130 135
Arg Thr Val Phe Val Phe Tyr Tyr Phe Phe Ser Pro Asn Ile Ser
140 145 150
Ile Pro Asn Cys Gly Gly Tyr Leu Asp Thr Leu Glu Gly Ser Phe
155 160 165
Thr Ser Pro Asn Tyr Pro Lys Pro His Pro Glu Leu Ala Tyr Cys
170 175 180
Val Trp His Ile Gln Val Glu Lys Asp Tyr Lys Ile Lys Leu Asn
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P1618P2C3.txt

185	190	195
Phe Lys Glu Ile	Phe Leu Glu Ile Asp Lys Gln Cys Lys Phe Asp	
200	205	210
Phe Leu Ala Ile	Tyr Asp Gly Pro Ser Thr Asn Ser Gly Leu Ile	
215	220	225
Gly Gln Val Cys	Gly Arg Val Thr Pro Thr Phe Glu Ser Ser Ser	
230	235	240
Asn Ser Leu Thr	Val Val Leu Ser Thr Asp Tyr Ala Asn Ser Tyr	
245	250	255
Arg Gly Phe Ser	Ala Ser Tyr Thr Ser Ile Tyr Ala Glu Asn Ile	
260	265	270
Asn Thr Thr Ser	Leu Thr Cys Ser Ser Asp Arg Met Arg Val Ile	
275	280	285
Ile Ser Lys Ser	Tyr Leu Glu Ala Phe Asn Ser Asn Gly Asn Asn	
290	295	300
Leu Gln Leu Lys	Asp Pro Thr Cys Arg Pro Lys Leu Ser Asn Val	
305	310	315
Val Glu Phe Ser	Val Pro Leu Asn Gly Cys Gly Thr Ile Arg Lys	
320	325	330
Val Glu Asp Gln	Ser Ile Thr Tyr Thr Asn Ile Ile Thr Phe Ser	
335	340	345
Ala Ser Ser Thr	Ser Glu Val Ile Thr Arg Gln Lys Gln Leu Gln	
350	355	360
Ile Ile Val Lys	Cys Glu Met Gly His Asn Ser Thr Val Glu Ile	
365	370	375
Ile Tyr Ile Thr	Glu Asp Asp Val Ile Gln Ser Gln Asn Ala Leu	
380	385	390
Gly Lys Tyr Asn	Thr Ser Met Ala Leu Phe Glu Ser Asn Ser Phe	
395	400	405
Glu Lys Thr Ile	Leu Glu Ser Pro Tyr Tyr Val Asp Leu Asn Gln	
410	415	420
Thr Leu Phe Val	Gln Val Ser Leu His Thr Ser Asp Pro Asn Leu	
425	430	435
Val Val Phe Leu	Asp Thr Cys Arg Ala Ser Pro Thr Ser Asp Phe	
440	445	450
Ala Ser Pro Thr	Tyr Asp Leu Ile Lys Ser Gly Cys Ser Arg Asp	
455	460	465
Glu Thr Cys Lys	Val Tyr Pro Leu Phe Gly His Tyr Gly Arg Phe	
470	475	480
Gln Phe Asn Ala	Phe Lys Phe Leu Arg Ser Met Ser Ser Val Tyr	
485	490	495
Leu Gln Cys Lys	Val Leu Ile Cys Asp Ser Ser Asp His Gln Ser	

500	505	510
Arg Cys Asn Gln Gly Cys Val Ser Arg Ser Lys Arg Asp Ile Ser	515	525
Ser Tyr Lys Trp Lys Thr Asp Ser Ile Ile Gly Pro Ile Arg Leu	530	540
Lys Arg Asp Arg Ser Ala Ser Gly Asn Ser Gly Phe Gln His Glu	545	555
Thr His Ala Glu Glu Thr Pro Asn Gln Pro Phe Asn Ser Val His	560	570
Leu Phe Ser Phe Met Val Leu Ala Leu Asn Val Val Thr Val Ala	575	585
Thr Ile Thr Val Arg His Phe Val Asn Gln Arg Ala Asp Tyr Lys	590	600
Tyr Gln Lys Leu Gln Asn Tyr	605	

<210> 191
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 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 191
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<210> 192
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 192
 tttgatgacg attcgaaggt gg 22

<210> 193
 <211> 47
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 193
 ggaaggatcc ttcaccagcc ccaattaccc aaagccgcat cctgagc 47

<210> 194
 <211> 2362
 <212> DNA
 <213> Homo sapien

<400> 194
 gacggaagaa cagcgctccc gaggccgcgg gaggcctgcag agaggacagc 50
 Page 123

P1618P2C3.txt

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 cgttgctgct gttgctgttg ctgctgctgc cgccgccgcc gtgccctgcc 150
 cacagcgcca cgcgcttcga cccacactgg gagtccctgg acgcccgcca 200
 gctgcccgcg tggtttgacc aggccaagtt cggcatcttc atccactggg 250
 gagtgttttc cgtgcccagc ttcggtagcg agtggttctg gtggtattgg 300
 caaaaggaaa agataccgaa gtatgtggaa tttatgaaag ataattacc 350
 tcctagtttc aaatatgaag attttgacc actatttaca gcaaaatttt 400
 ttaatgccaa ccagtgggca gatatttttc aggctctgg tgccaaatac 450
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 ctgtactatt cctttttga atggtttcat ccgctcttcc ttgaggatga 650
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 agctctatga gttagtgaac aactatcagc ctgaggttct gtggtcggat 750
 ggtgacggag gagcaccgga tcaatactgg aacagcacag gcttcttggc 800
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 ttctgtagtt tttgaggagc gactgaggca agtgggggtcc tggctaaaag 1150
 tcaatggaga agctatttat gaaacctata cctggcgatc ccagaatgac 1200
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 atcccaaagc tattctgggg gcaacagagg tgaaactact gggccatgga 1350
 cagccactta actggatttc tttggagcaa aatggcatta tggtagaact 1400
 gccacagcta accattcatc agatgccgtg taaatggggc tgggctctag 1450
 ccctaactaa tgtgatctaa agtgcagcag agtggctgat gctgcaagtt 1500
 atgtctaagg ctaggaacta tcagggtgtc ataattgtag cacatggaga 1550
 aagcaatgta aactggataa gaaaattatt tggcagttca gccctttccc 1600

P1618P2C3.txt

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 ccagtgcact ttgccattaa agtctcttca cattgatttg tttccatgtg 1700
 tgactcagag gtgagaattht tttcacatta tagtagcaag gaattggttg 1750
 tattatggac cgaactgaaa attttatgtt gaagccatat ccccatgat 1800
 tatatagtta tgcacactt aatatgggga tttttcttg gaaatgcatt 1850
 gctagtcaat tttttttgt gccaacatca tagagtgtat ttacaaaatc 1900
 ctagatggca tagcctacta cacaccta atgtgtatggta tagactgttg 1950
 ctctaggct acagacatat acagcatgtt actgaatact gtaggcaata 2000
 gtaacagtgg ttttgtata tcgaaacata tggaaacata gagaaggtac 2050
 agtaaaaata ctgtaaaata aatggtgcac ctgtataggg cacttaccac 2100
 gaatggagct tacaggactg gaagttgctc tgggtgagtc agtgagtga 2150
 tgtgaaggcc taggacatta ttgaacactg ccagacgtta taaatactgt 2200
 atgcttaggc tacactacat ttataaaaaa aagtttttct ttcttcaatt 2250
 ataaattaac ataagtgtac tgtaacttta caaacgtttt aatttttaaa 2300
 accttttttg ctcttttgta ataacactta gcttaaaaca taaactcatt 2350
 gtgcaaagt aa 2362

<210> 195
 <211> 467
 <212> PRT
 <213> Homo Sapien

<400> 195
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 1 5 10 15
 Leu Leu Leu Leu Leu Leu Pro Pro Pro Pro Cys Pro Ala His Ser
 20 25 30
 Ala Thr Arg Phe Asp Pro Thr Trp Glu Ser Leu Asp Ala Arg Gln
 35 40 45
 Leu Pro Ala Trp Phe Asp Gln Ala Lys Phe Gly Ile Phe Ile His
 50 55 60
 Trp Gly Val Phe Ser Val Pro Ser Phe Gly Ser Glu Trp Phe Trp
 65 70 75
 Trp Tyr Trp Gln Lys Glu Lys Ile Pro Lys Tyr Val Glu Phe Met
 80 85 90
 Lys Asp Asn Tyr Pro Pro Ser Phe Lys Tyr Glu Asp Phe Gly Pro
 95 100 105
 Leu Phe Thr Ala Lys Phe Phe Asn Ala Asn Gln Trp Ala Asp Ile
 110 115 120
 Phe Gln Ala Ser Gly Ala Lys Tyr Ile Val Leu Thr Ser Lys His
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P1618P2C3.txt

125	130	135
His Glu Gly Phe Thr	Leu Trp Gly Ser Glu Tyr Ser Trp Asn Trp	
140	145	150
Asn Ala Ile Asp Glu	Gly Pro Lys Arg Asp Ile Val Lys Glu Leu	
155	160	165
Glu Val Ala Ile Arg	Asn Arg Thr Asp Leu Arg Phe Gly Leu Tyr	
170	175	180
Tyr Ser Leu Phe Glu	Trp Phe His Pro Leu Phe Leu Glu Asp Glu	
185	190	195
Ser Ser Ser Phe His	Lys Arg Gln Phe Pro Val Ser Lys Thr Leu	
200	205	210
Pro Glu Leu Tyr Glu	Leu Val Asn Asn Tyr Gln Pro Glu Val Leu	
215	220	225
Trp Ser Asp Gly Asp	Gly Gly Ala Pro Asp Gln Tyr Trp Asn Ser	
230	235	240
Thr Gly Phe Leu Ala	Trp Leu Tyr Asn Glu Ser Pro Val Arg Gly	
245	250	255
Thr Val Val Thr Asn	Asp Arg Trp Gly Ala Gly Ser Ile Cys Lys	
260	265	270
His Gly Gly Phe Tyr	Thr Cys Ser Asp Arg Tyr Asn Pro Gly His	
275	280	285
Leu Leu Pro His Lys	Trp Glu Asn Cys Met Thr Ile Asp Lys Leu	
290	295	300
Ser Trp Gly Tyr Arg	Arg Glu Ala Gly Ile Ser Asp Tyr Leu Thr	
305	310	315
Ile Glu Glu Leu Val	Lys Gln Leu Val Glu Thr Val Ser Cys Gly	
320	325	330
Gly Asn Leu Leu Met	Asn Ile Gly Pro Thr Leu Asp Gly Thr Ile	
335	340	345
Ser Val Val Phe Glu	Glu Arg Leu Arg Gln Val Gly Ser Trp Leu	
350	355	360
Lys Val Asn Gly Glu	Ala Ile Tyr Glu Thr Tyr Thr Trp Arg Ser	
365	370	375
Gln Asn Asp Thr Val	Thr Pro Asp Val Trp Tyr Thr Ser Lys Pro	
380	385	390
Lys Glu Lys Leu Val	Tyr Ala Ile Phe Leu Lys Trp Pro Thr Ser	
395	400	405
Gly Gln Leu Phe Leu	Gly His Pro Lys Ala Ile Leu Gly Ala Thr	
410	415	420
Glu Val Lys Leu Leu	Gly His Gly Gln Pro Leu Asn Trp Ile Ser	
425	430	435
Leu Glu Gln Asn Gly	Ile Met Val Glu Leu Pro Gln Leu Thr Ile	

440

445

450

His Gln Met Pro Cys Lys Trp Gly Trp Ala Leu Ala Leu Thr Asn
 455 460 465

Val Ile

<210> 196
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 196
 tggtttgacc aggccaagtt cgg 23

<210> 197
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 197
 ggattcatcc tcaaggaaga gcgg 24

<210> 198
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 198
 aacttgcagc atcagccact ctgc 24

<210> 199
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 199
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<210> 200
 <211> 2372
 <212> DNA
 <213> Homo Sapien

<400> 200
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 cctcaacata gttccagaac tctccatccg gactagttat tgagcatctg 100
 cctctcatat caccagtggc catctgaggt gtttccttgg ctctgaaggg 150
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P1618P2C3.txt

gtaggcacga tggccaggtg cttcagcctg gtgttgcttc tcacttccat 200
 ctggaccacg aggctcctgg tccaaggctc tttgcgtgca gaagagcttt 250
 ccatccaggt gtcatgcaga attatgggga tcacccttgt gagcaaaaag 300
 gcgaaccagc agctgaattt cacagaagct aaggaggcct gtaggctgct 350
 gggactaagt ttggccggca aggaccaagt tgaaacagcc ttgaaagcta 400
 gctttgaaac ttgcagctat ggctgggttg gagatggatt cgtggtcatc 450
 tctaggatta gcccaaacc caagtgtggg aaaaatgggg tgggtgtcct 500
 gatttggaag gttccagtga gccgacagtt tgcagcctat tgttacaact 550
 catctgatac ttggactaac tcgtgcattc cagaaattat caccaccaa 600
 gatcccatat tcaacactca aactgcaaca caaacaacag aatttattgt 650
 cagtgcagct acctactcgg tggcatcccc ttactctaca atacctgccc 700
 ctactactac tcctcctgct ccagcttcca cttctattcc acggagaaaa 750
 aaattgattt gtgtcacaga agtttttatg gaaactagca ccatgtctac 800
 agaaactgaa ccatttggtg aaaataaagc agcattcaag aatgaagctg 850
 ctgggttttg aggtgtcccc acggctctgc tagtgcttgc tctcctcttc 900
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 ggccttccct ttacaaaca agaatcagca gaaggaaatg atcgaaacca 1000
 aagtagtaaa ggaggagaag gccaatgata gcaaccctaa tgaggaaatca 1050
 aagaaaactg ataaaaaccc agaagagtcc aagagtccaa gcaaaactac 1100
 cgtgcgatgc ctggaagctg aagtttagat gagacagaaa tgaggagaca 1150
 cacctgaggc tggtttcttt catgctcctt accctgcccc agctggggaa 1200
 atcaaaaggg ccaaagaacc aaagaagaaa gtccaccctt ggttcctaac 1250
 tggaatcagc tcaggactgc cattggacta tggagtgcac caaagagaat 1300
 gcccttctcc ttattgtaac cctgtctgga tcctatcctc ctacctcaa 1350
 agcttcccac ggcctttcta gcctggctat gtcctaataa tatccactg 1400
 ggagaaagga gttttgcaaa gtgcaaggac ctaaaacatc tcatcagtat 1450
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 ctgagcccgg taagagcaaa agaattggcag aaaagttag cccctgaaag 1650
 ccatggagat tctcataact tgagacctaa tctctgtaaa gctaaaataa 1700

P1618P2C3.txt

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 taaacacaga caggggtcaaa gtgttttctc tgaacacatt gagttggaat 1800
 cactgttttag aacacacaca cttacttttt ctggtctcta ccactgctga 1850
 ttttttctct aggaaatata cttttacaag taacaaaaat aaaaactctt 1900
 ataaatttct atttttatct gagttacaga aatgattact aaggaagatt 1950
 actcagtaat ttgttttaaa agtaataaaa ttcaacaaac atttgctgaa 2000
 tagctactat atgtcaagtg ctgtgcaagg tattacactc tgtaattgaa 2050
 tattattcct caaaaaattg cacatagtag aacgctatct gggaagctat 2100
 ttttttcagt ttgatattt ctagcttatt tactttccaa ctaattttta 2150
 tttttgctga gactaatctt attcattttc tctaatatgg caaccattat 2200
 aaccttaatt tattattaac atacctaaga agtacattgt tacctctata 2250
 taccaaagca catttttaaaa gtgccattaa caaatgtatc actagccctc 2300
 ctttttccaa caagaaggga ctgagagatg cagaaatatt tgtgacaaaa 2350
 aattaaagca tttagaaaac tt 2372

<210> 201
 <211> 322
 <212> PRT
 <213> Homo Sapien

<400> 201
 Met Ala Arg Cys Phe Ser Leu Val Leu Leu Leu Thr Ser Ile Trp
 1 5 10 15
 Thr Thr Arg Leu Leu Val Gln Gly Ser Leu Arg Ala Glu Glu Leu
 20 25 30
 Ser Ile Gln Val Ser Cys Arg Ile Met Gly Ile Thr Leu Val Ser
 35 40 45
 Lys Lys Ala Asn Gln Gln Leu Asn Phe Thr Glu Ala Lys Glu Ala
 50 55 60
 Cys Arg Leu Leu Gly Leu Ser Leu Ala Gly Lys Asp Gln Val Glu
 65 70 75
 Thr Ala Leu Lys Ala Ser Phe Glu Thr Cys Ser Tyr Gly Trp Val
 80 85 90
 Gly Asp Gly Phe Val Val Ile Ser Arg Ile Ser Pro Asn Pro Lys
 95 100 105
 Cys Gly Lys Asn Gly Val Gly Val Leu Ile Trp Lys Val Pro Val
 110 115 120
 Ser Arg Gln Phe Ala Ala Tyr Cys Tyr Asn Ser Ser Asp Thr Trp
 125 130 135
 Thr Asn Ser Cys Ile Pro Glu Ile Ile Thr Thr Lys Asp Pro Ile
 140 145 150

P1618P2C3.txt

Phe	Asn	Thr	Gln	Thr	Ala	Thr	Gln	Thr	Thr	Glu	Phe	Ile	Val	Ser
				155					160					165
Asp	Ser	Thr	Tyr	Ser	Val	Ala	Ser	Pro	Tyr	Ser	Thr	Ile	Pro	Ala
				170					175					180
Pro	Thr	Thr	Thr	Pro	Pro	Ala	Pro	Ala	Ser	Thr	Ser	Ile	Pro	Arg
				185					190					195
Arg	Lys	Lys	Leu	Ile	Cys	Val	Thr	Glu	Val	Phe	Met	Glu	Thr	Ser
				200					205					210
Thr	Met	Ser	Thr	Glu	Thr	Glu	Pro	Phe	Val	Glu	Asn	Lys	Ala	Ala
				215					220					225
Phe	Lys	Asn	Glu	Ala	Ala	Gly	Phe	Gly	Gly	Val	Pro	Thr	Ala	Leu
				230					235					240
Leu	Val	Leu	Ala	Leu	Leu	Phe	Phe	Gly	Ala	Ala	Ala	Gly	Leu	Gly
				245					250					255
Phe	Cys	Tyr	Val	Lys	Arg	Tyr	Val	Lys	Ala	Phe	Pro	Phe	Thr	Asn
				260					265					270
Lys	Asn	Gln	Gln	Lys	Glu	Met	Ile	Glu	Thr	Lys	Val	Val	Lys	Glu
				275					280					285
Glu	Lys	Ala	Asn	Asp	Ser	Asn	Pro	Asn	Glu	Glu	Ser	Lys	Lys	Thr
				290					295					300
Asp	Lys	Asn	Pro	Glu	Glu	Ser	Lys	Ser	Pro	Ser	Lys	Thr	Thr	Val
				305					310					315
Arg	Cys	Leu	Glu	Ala	Glu	Val								
				320										

<210> 202
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 202
 gagctttcca tccaggtgtc atgc 24

<210> 203
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 203
 gtcagtgaca gtacctactc gg 22

<210> 204
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 204

tgagacagga ggagtagtag tagg 24

<210> 205

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 205

aggaggcctg taggctgctg ggactaagtt tggccggcaa ggaccaagtt 50

<210> 206

<211> 1620

<212> DNA

<213> Homo Sapien

<220>

<221> unsure

<222> 973, 977, 996, 1003

<223> unknown base

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ctttcacgat ggctcgccca accttactac cttctgtcgg ccctgctctc 100
tgctgccttc ctactcgtga ggaaactgcc gccgctctgc cacgggtctgc 150
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catcactgtg gagcaacata taggcaacat tttcatgttt agtaaagtgg 300
ccaacacaat tcttttcttc cgcttgata ttcgcatggg cctactttac 350
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tagaacggga caagaggggc acttggttg tggagttctt tgccaattgg 500
tctaattgact gccaatcatt tgcccctatc tatgctgacc tctcccttaa 550
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acagattgac aagaaaggac gggctgtctc atggaccttc tctgaggaga 750
atgtgatccg agaatttaac ttaaattgagc tataccagcg ggccaagaaa 800
ctatcaaagg ctggagacaa tatccctgag gagcagcctg tggcttcaac 850

P1618P2C3.txt

ccccaccaca gtgtcagatg gggaaaacaa gaaggataaa taagatcctc 900
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caagcctgag gctgcagcct ttnattnatg ttttcccttt ggctgngact 1000
ggntggggca gcatgcagct tctgatttta aagaggcatc tagggaattg 1050
tcaggcaccc tacaggaagg cctgccatgc tgtggccaac tgtttactg 1100
gagcaagaaa gagatctcat aggacggagg gggaaatggt ttccctcaa 1150
gcttgggtca gtgtgttaac tgcttatcag ctattcagac atctccatgg 1200
ttttccatg aaactctgtg gtttcatcat tccttcttag ttgacctgca 1250
cagcttggtt agacctagat ttaaccctaa ggtaagatgc tggggtatag 1300
aacgctaaga attttcccc aaggactctt gcttccttaa gcccttctgg 1350
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ctaaggagaa acctttaacc acaaagtttt tatcattgaa gacaatattg 1450
aacaaccccc tattttggtg ggattgagaa ggggtgaata gaggcttgag 1500
actttccttt gtgtggtagg acttgaggga gaaatcccct ggactttcac 1550
taaccctctg acatactccc cacaccaggt tgatggcttt ccgtaataaa 1600
aagattggga tttccttttg 1620

<210> 207
<211> 296
<212> PRT
<213> Homo Sapien

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Arg Leu Ser Arg Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala
20 25 30
Leu Leu Ser Ala Ala Phe Leu Leu Val Arg Lys Leu Pro Pro Leu
35 40 45
Cys His Gly Leu Pro Thr Gln Arg Glu Asp Gly Asn Pro Cys Asp
50 55 60
Phe Asp Trp Arg Glu Val Glu Ile Leu Met Phe Leu Ser Ala Ile
65 70 75
Val Met Met Lys Asn Arg Arg Ser Ile Thr Val Glu Gln His Ile
80 85 90
Gly Asn Ile Phe Met Phe Ser Lys Val Ala Asn Thr Ile Leu Phe
95 100 105
Phe Arg Leu Asp Ile Arg Met Gly Leu Leu Tyr Ile Thr Leu Cys
110 115 120
Ile Val Phe Leu Met Thr Cys Lys Pro Pro Leu Tyr Met Gly Pro
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P1618P2C3.txt

125	130	135
Glu Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp Glu Glu Leu	140	150
Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe Ala Asn	155	165
Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp Leu	170	180
Ser Leu Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly Lys Val Asp	185	195
Val Gly Arg Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val Ser Thr	200	210
Ser Pro Leu Thr Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln Gly	215	225
Gly Lys Glu Ala Met Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg	230	240
Ala Val Ser Trp Thr Phe Ser Glu Glu Asn Val Ile Arg Glu Phe	245	255
Asn Leu Asn Glu Leu Tyr Gln Arg Ala Lys Lys Leu Ser Lys Ala	260	270
Gly Asp Asn Ile Pro Glu Glu Gln Pro Val Ala Ser Thr Pro Thr	275	285
Thr Val Ser Asp Gly Glu Asn Lys Lys Asp Lys	290	295

<210> 208
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 208
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<210> 209
 <211> 20
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 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 209
 tggagacaat atccctgagg 20

<210> 210
 <211> 24
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<223> Synthetic Oligonucleotide Probe

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<212> DNA
<213> Homo Sapien

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P1618P2C3.txt

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 35 40 45
 Gly Val Lys Leu Val Val Glu Thr Pro Glu Glu Thr Leu Phe Thr
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 Tyr Gln Gly Ala Ser Val Ile Leu Pro Cys Arg Tyr Arg Tyr Glu
 65 70 75
 Pro Ala Leu Val Ser Pro Arg Arg Val Arg Val Lys Trp Trp Lys
 80 85 90

P1618P2C3.txt

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				125					130					135
Leu	Arg	Leu	Glu	Asp	Tyr	Gly	Arg	Tyr	Arg	Cys	Glu	Val	Ile	Asp
				140					145					150
Gly	Leu	Glu	Asp	Glu	Ser	Gly	Leu	Val	Glu	Leu	Glu	Leu	Arg	Gly
				155					160					165
Val	Val	Phe	Pro	Tyr	Gln	Ser	Pro	Asn	Gly	Arg	Tyr	Gln	Phe	Asn
				170					175					180
Phe	His	Glu	Gly	Gln	Gln	Val	Cys	Ala	Glu	Gln	Ala	Ala	Val	Val
				185					190					195
Ala	Ser	Phe	Glu	Gln	Leu	Phe	Arg	Ala	Trp	Glu	Glu	Gly	Leu	Asp
				200					205					210
Trp	Cys	Asn	Ala	Gly	Trp	Leu	Gln	Asp	Ala	Thr	Val	Gln	Tyr	Pro
				215					220					225
Ile	Met	Leu	Pro	Arg	Gln	Pro	Cys	Gly	Gly	Pro	Gly	Leu	Ala	Pro
				230					235					240
Gly	Val	Arg	Ser	Tyr	Gly	Pro	Arg	His	Arg	Arg	Leu	His	Arg	Tyr
				245					250					255
Asp	Val	Phe	Cys	Phe	Ala	Thr	Ala	Leu	Lys	Gly	Arg	Val	Tyr	Tyr
				260					265					270
Leu	Glu	His	Pro	Glu	Lys	Leu	Thr	Leu	Thr	Glu	Ala	Arg	Glu	Ala
				275					280					285
Cys	Gln	Glu	Asp	Asp	Ala	Thr	Ile	Ala	Lys	Val	Gly	Gln	Leu	Phe
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				305					310					315
Leu	Ala	Asp	Gly	Ser	Val	Arg	Tyr	Pro	Val	Val	His	Pro	His	Pro
				320					325					330
Asn	Cys	Gly	Pro	Pro	Glu	Pro	Gly	Val	Arg	Ser	Phe	Gly	Phe	Pro
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Asp Asp Ala His Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu
          50          55          60
Gly Arg Glu Val Ala Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu
          65          70          75
Ser Gln Ala Arg Leu Gly Arg Ile Val Asp Arg Met Asp Arg Ala
          80          85          90
Gly Asp Gly Asp Gly Trp Val Ser Leu Ala Glu Leu Arg Ala Trp
          95          100          105
Ile Ala His Thr Gln Gln Arg His Ile Arg Asp Ser Val Ser Ala
          110          115          120
Ala Trp Asp Thr Tyr Asp Thr Asp Arg Asp Gly Arg Val Gly Trp
          125          130          135
Glu Glu Leu Arg Asn Ala Thr Tyr Gly His Tyr Ala Pro Gly Glu
          140          145          150
Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu
          155          160          165
Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp
          170          175          180
Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu
          185          190          195
Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu Glu
          200          205          210
Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr
          215          220          225
Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala
          230          235          240
Trp Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu
          245          250          255
Asn Lys Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val
          260          265          270
Leu Pro Pro Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu
          275          280          285
Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala
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<211> 18

<212> DNA

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<223> Synthetic Oligonucleotide Probe

<400> 223

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<210> 224

<211> 23

<212> DNA

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<400> 224

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<211> 2403

<212> DNA

<213> Homo Sapien

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tccctgtttc tttgtcgtc ccagcctgtc tgtcgtcgtt ttggcgcccc 150

P1618P2C3.txt

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P1618P2C3.txt

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 aaa 2403

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 35 40 45
 Ala Asp Val Leu Cys Pro Gly Gly Cys Pro Leu Glu Glu Phe Ser
 50 55 60
 Val Tyr Gly Asn Ile Val Tyr Ala Ser Val Ser Ser Ile Cys Gly
 65 70 75
 Ala Ala Val His Arg Gly Val Ile Ser Asn Ser Gly Gly Pro Val
 80 85 90
 Arg Val Tyr Ser Leu Pro Gly Arg Glu Asn Tyr Ser Ser Val Asp
 95 100 105
 Ala Asn Gly Ile Gln Ser Gln Met Leu Ser Arg Trp Ser Ala Ser
 110 115 120
 Phe Thr Val Thr Lys Gly Lys Ser Ser Thr Gln Glu Ala Thr Gly
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P1618P2C3.txt

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Lys	Thr	Pro	Glu	Lys	Lys	Thr	Gly	Asn	Lys	Asp	Cys	Lys	Ala	Asp
				155					160					165
Ile	Ala	Phe	Leu	Ile	Asp	Gly	Ser	Phe	Asn	Ile	Gly	Gln	Arg	Arg
				170					175					180
Phe	Asn	Leu	Gln	Lys	Asn	Phe	Val	Gly	Lys	Val	Ala	Leu	Met	Leu
				185					190					195
Gly	Ile	Gly	Thr	Glu	Gly	Pro	His	Val	Gly	Leu	Val	Gln	Ala	Ser
				200					205					210
Glu	His	Pro	Lys	Ile	Glu	Phe	Tyr	Leu	Lys	Asn	Phe	Thr	Ser	Ala
				215					220					225
Lys	Asp	Val	Leu	Phe	Ala	Ile	Lys	Glu	Val	Gly	Phe	Arg	Gly	Gly
				230					235					240
Asn	Ser	Asn	Thr	Gly	Lys	Ala	Leu	Lys	His	Thr	Ala	Gln	Lys	Phe
				245					250					255
Phe	Thr	Val	Asp	Ala	Gly	Val	Arg	Lys	Gly	Ile	Pro	Lys	Val	Val
				260					265					270
Val	Val	Phe	Ile	Asp	Gly	Trp	Pro	Ser	Asp	Asp	Ile	Glu	Glu	Ala
				275					280					285
Gly	Ile	Val	Ala	Arg	Glu	Phe	Gly	Val	Asn	Val	Phe	Ile	Val	Ser
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Val	Ala	Lys	Pro	Ile	Pro	Glu	Glu	Leu	Gly	Met	Val	Gln	Asp	Val
				305					310					315
Thr	Phe	Val	Asp	Lys	Ala	Val	Cys	Arg	Asn	Asn	Gly	Phe	Phe	Ser
				320					325					330
Tyr	His	Met	Pro	Asn	Trp	Phe	Gly	Thr	Thr	Lys	Tyr	Val	Lys	Pro
				335					340					345
Leu	Val	Gln	Lys	Leu	Cys	Thr	His	Glu	Gln	Met	Met	Cys	Ser	Lys
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Thr	Cys	Tyr	Asn	Ser	Val	Asn	Ile	Ala	Phe	Leu	Ile	Asp	Gly	Ser
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Ser	Ser	Val	Gly	Asp	Ser	Asn	Phe	Arg	Leu	Met	Leu	Glu	Phe	Val
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Phe	Thr	Asp	Tyr	Ser	Thr	Lys	Glu	Asn	Val	Leu	Ala	Val	Ile	Arg
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Asn	Ile	Arg	Tyr	Met	Ser	Gly	Gly	Thr	Ala	Thr	Gly	Asp	Ala	Ile
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P1618P2C3.txt

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Ile	Phe	Ser	Val	Gly	Val	Ala	Trp	Ala	Pro	Leu	Asp	Asp	Leu	Lys
				500					505					510
Asp	Met	Ala	Ser	Lys	Pro	Lys	Glu	Ser	His	Ala	Phe	Phe	Thr	Arg
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Glu	Phe	Thr	Gly	Leu	Glu	Pro	Ile	Val	Ser	Asp	Val	Ile	Arg	Gly
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<210> 234
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 234
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<210> 235
 <211> 2586
 <212> DNA
 <213> Homo Sapien

<400> 235
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 caccgcagc ccggcggcct cccggcgga gcgagcagat ccagtccggc 100
 ccgcagcgca actcgggtcca gtcggggcg cggtgcggg cgagagcgg 150
 agatgcagcg gcttggggcc accctgctgt gcctgctgct ggcggcggcg 200
 gtccccacgg ccccgcgcc cgctccgacg gcgacctcgg ctccagtcaa 250
 gcccgggccc gctctcagct accgcagga ggaggccacc ctcaatgaga 300
 tgttccgcga ggttgaggaa ctgatggagg acacgcagca caaattgcgc 350
 agcgcggtgg aagagatgga ggcagaagaa gctgctgcta aagcatcatc 400
 agaagtgaac ctggcaaact tacctcccag ctatcacaat gagaccaaca 450
 cagacacgaa ggttggaaat aataccatcc atgtgcaccg agaaattcac 500
 aagataacca acaaccagac tggacaaatg gtcttttcag agacagttat 550

P1618P2C3.txt

cacatctgtg ggagacgaag aaggcagaag gagccacgag tgcacatcg 600
 acgaggactg tgggccagc atgtactgcc agtttgccag cttccagtac 650
 acctgccagc catgccggg ccagaggatg ctctgcaccc gggacagtga 700
 gtgctgtgga gaccagctgt gtgtctggg tctactgcacc aaaatggcca 750
 ccaggggcag caatgggacc atctgtgaca accagaggga ctgccagccg 800
 gggctgtgct gtgccttcca gagaggcctg ctgttccctg tgtgcacacc 850
 cctgcccgtg gagggcgagc tttgccatga ccccgccagc cggcttctgg 900
 acctcatcac ctgggagcta gagcctgatg gagccttga ccatgcccct 950
 tgtgccagtg gcctcctctg ccagccccac agccacagcc tgggtgtatgt 1000
 gtgcaagccg accttcgtgg ggagccgtga ccaagatggg gagatcctgc 1050
 tgcccagaga ggtccccgat gagtatgaag ttggcagctt catggaggag 1100
 gtgcccagg agctggagga cctggagagg agcctgactg aagagatggc 1150
 gctgggggag cctgcggctg ccgccgctgc actgctggga ggggaagaga 1200
 tttagatctg gaccaggctg tgggtagatg tgcaatagaa atagctaatt 1250
 ttttcccca ggtgtgtgct ttaggcgtgg gctgaccagg cttcttccta 1300
 catcttctc ccagtaagtt tcccctctgg cttgacagca tgagggtgtg 1350
 tgcatttgtt cagctcccc aggctgttct ccaggcttca cagtctggtg 1400
 cttgggagag tcaggcaggg ttaaactgca ggagcagttt gccaccctg 1450
 tccagattat tggctgctt gcctctacca gttggcagac agccgtttgt 1500
 tctacatggc tttgataatt gtttgagggg aggagatgga aacaatgtgg 1550
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 tgcaaacatc aacctggcaa aaatgcaaca aatgaatttt ccacgcagtt 1650
 ctttccatgg gcataggtaa gctgtgcctt cagctgttgc agatgaaatg 1700
 ttctgttcac cctgcattac atgtgtttat tcatccagca gtgttgctca 1750
 gtcctacct ctgtgccagg gcagcatttt catatccaag atcaattccc 1800
 tctctcagca cagcctggg agggggtcat tgttctctc gtccatcagg 1850
 gatctcagag gctcagagac tgcaagctgc ttgcccaagt cacacagcta 1900
 gtgaagacca gagcagtttc atctggttgt gactctaagc tcagtgtctt 1950
 ctccactacc ccacaccagc cttggtgcca caaaagtgc tccccaaaag 2000
 gaaggagaat gggatttttc ttgaggcatg cacatctgga attaaagtca 2050
 aactaattct cacatccctc taaaagtaaa ctactgttag gaacagcagt 2100
 gttctcacag tgtggggcag ccgtccttct aatgaagaca atgatattga 2150

P1618P2C3.txt

cactgtccct ctttggcagt tgcattagta actttgaaag gtatatgact 2200
gagcgtagca tacagggttaa cctgcagaaa cagtacttag gtaattgtag 2250
ggcgaggatt ataaatgaaa tttgcaaaat cacttagcag caactgaaga 2300
caattatcaa ccacgtggag aaaatcaaac cgagcagggc tgtgtgaaac 2350
atggttgtaa tatgcgactg cgaacactga actctacgcc actccacaaa 2400
tgatgttttc aggtgtcatg gactgttgcc accatgtatt catccagagt 2450
tcttaaagtt taaagttgca catgattgta taagcatgct ttctttgagt 2500
tttaaattat gtataaacat aagttgcatt tagaaatcaa gcataaatca 2550
cttcaactgc aaaaaaaaaa aaaaaaaaaa aaaaaa 2586

<210> 236
<211> 350
<212> PRT
<213> Homo Sapien

<400> 236
Met Gln Arg Leu Gly Ala Thr Leu Leu Cys Leu Leu Leu Ala Ala
1 5 10 15
Ala Val Pro Thr Ala Pro Ala Pro Ala Pro Thr Ala Thr Ser Ala
20 25 30
Pro Val Lys Pro Gly Pro Ala Leu Ser Tyr Pro Gln Glu Glu Ala
35 40 45
Thr Leu Asn Glu Met Phe Arg Glu Val Glu Glu Leu Met Glu Asp
50 55 60
Thr Gln His Lys Leu Arg Ser Ala Val Glu Glu Met Glu Ala Glu
65 70 75
Glu Ala Ala Ala Lys Ala Ser Ser Glu Val Asn Leu Ala Asn Leu
80 85 90
Pro Pro Ser Tyr His Asn Glu Thr Asn Thr Asp Thr Lys Val Gly
95 100 105
Asn Asn Thr Ile His Val His Arg Glu Ile His Lys Ile Thr Asn
110 115 120
Asn Gln Thr Gly Gln Met Val Phe Ser Glu Thr Val Ile Thr Ser
125 130 135
Val Gly Asp Glu Glu Gly Arg Arg Ser His Glu Cys Ile Ile Asp
140 145 150
Glu Asp Cys Gly Pro Ser Met Tyr Cys Gln Phe Ala Ser Phe Gln
155 160 165
Tyr Thr Cys Gln Pro Cys Arg Gly Gln Arg Met Leu Cys Thr Arg
170 175 180
Asp Ser Glu Cys Cys Gly Asp Gln Leu Cys Val Trp Gly His Cys
185 190 195

P1618P2C3.txt

Thr	Lys	Met	Ala	Thr	Arg	Gly	Ser	Asn	Gly	Thr	Ile	Cys	Asp	Asn
				200					205					210
Gln	Arg	Asp	Cys	Gln	Pro	Gly	Leu	Cys	Cys	Ala	Phe	Gln	Arg	Gly
				215					220					225
Leu	Leu	Phe	Pro	Val	Cys	Thr	Pro	Leu	Pro	Val	Glu	Gly	Glu	Leu
				230					235					240
Cys	His	Asp	Pro	Ala	Ser	Arg	Leu	Leu	Asp	Leu	Ile	Thr	Trp	Glu
				245					250					255
Leu	Glu	Pro	Asp	Gly	Ala	Leu	Asp	Arg	Cys	Pro	Cys	Ala	Ser	Gly
				260					265					270
Leu	Leu	Cys	Gln	Pro	His	Ser	His	Ser	Leu	Val	Tyr	Val	Cys	Lys
				275					280					285
Pro	Thr	Phe	Val	Gly	Ser	Arg	Asp	Gln	Asp	Gly	Glu	Ile	Leu	Leu
				290					295					300
Pro	Arg	Glu	Val	Pro	Asp	Glu	Tyr	Glu	Val	Gly	Ser	Phe	Met	Glu
				305					310					315
Glu	Val	Arg	Gln	Glu	Leu	Glu	Asp	Leu	Glu	Arg	Ser	Leu	Thr	Glu
				320					325					330
Glu	Met	Ala	Leu	Gly	Glu	Pro	Ala	Ala	Ala	Ala	Ala	Ala	Leu	Leu
				335					340					345
Gly	Gly	Glu	Glu	Ile										
				350										

<210> 237
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 237
 ggagctgcac cccttgc 17

<210> 238
 <211> 49
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide Probe

<400> 238
 ggaggactgt gccaccatga gagactcttc aaaccaagg caaaattgg 49

<210> 239
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide Probe

P1618P2C3.txt

<400> 239
gcagagcgga gatgcagcgg cttg 24

<210> 240
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 240
ttggcagctt catggagg 18

<210> 241
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 241
cctgggcaaa aatgcaac 18

<210> 242
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 242
ctccagctcc tggcgcacct cctc 24

<210> 243
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 243
ggctctcagc taccgcgcag gagcgaggcc accctcaatg agatg 45

<210> 244
<211> 3679
<212> DNA
<213> Homo Sapien

<400> 244
aaggaggctg ggaggaaaga ggtaagaaag gttagagaac ctacctcaca 50
tctctctggg ctcaagaaga ctctgaagat aacaataatt tcagcccatc 100
cactctcctt ccttcccaaa cacacatgtg catgtacaca cacacataca 150
cacacataca ccttctcttc cttcactgaa gactcacagt cactcactct 200
gtgagcaggt catagaaaag gacactaaag ccttaaggac aggcctggcc 250

P1618P2C3.txt

attacctctg cagctccttt ggcttggtga gtcaaaaaac atgggagggg 300
ccaggcacgg tgactcacac ctgtaatccc agcatttttg gagaccgagg 350
tgagcagatc acttgaggtc aggagttcga gaccagcctg gccaacatgg 400
agaaaccccc atctctacta aaaatacaaa aattagccag gagtgggtggc 450
aggtgcctgt aatcccagct actcaggtgg ctgagccagg agaatcgctt 500
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ccagggtctgc ccctgatggg gcctggcaat gactgagcag gcccagcccc 700
agaggacaag gaagagaagg catattgagg agggcaagaa gtgacgcccc 750
gtgtagaatg actgccctgg gaggggtggtt ccttggggccc tggcaggggtt 800
gctgaccctt accctgcaaa acacaaagag caggactcca gactctcctt 850
gtgaatggtc ccctgccctg cagctccacc atgaggcttc tcgtggcccc 900
actcttgcta gcttgggtgg ctggtgccac tgccactgtg cccgtggtac 950
cctggcatgt tccctgcccc cctcagtgtg cctgccagat ccggccctgg 1000
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gccagcctac aggaactcta tctcaaccac aaccagctct accgcatcgc 1350
ccccagggcc ttttctggcc tcagcaactt gctgcggctg cacctcaact 1400
ccaacctcct gagggccatt gacagccgct ggtttgaaat gctgccaac 1450
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agcgggtagg gccgggggac tttgccaaca tgctgcacct taaggagctg 1750
ggactgaaca acatggagga gctggtctcc atcgacaagt ttgccctggt 1800

P1618P2C3.txt

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 atgtctcaaca acaacgctct cagtgccttg caccagcaga cgggtggagtc 1950
 cctgccccaac ctgcaggagg taggtctcca cggcaacccc atccgctgtg 2000
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 gagccgcaat ccaccctgtg tgcggagcct ccggacctcc agcgcctccc 2100
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 aagttgccct tacctcctag ggtcacctct gctgccattc tgaggaaat 3250
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P1618P2C3.txt

ttgctcttgt gcctcctggg caagggtga aggaggccac tccatctcac 3450
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 ggcattccga agctgacttt ctataggcaa tttgtacct ttgtggagaa 3600
 atgtgtcacc tcccccaacc cgattcactc ttttctctg ttttgtaaaa 3650
 aataaaaata aataataaca ataaaaaaaa 3679

<210> 245
 <211> 713
 <212> PRT
 <213> Homo Sapien

<400> 245
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 Ala Thr Ala Thr Val Pro Val Val Pro Trp His Val Pro Cys Pro
 20 25 30
 Pro Gln Cys Ala Cys Gln Ile Arg Pro Trp Tyr Thr Pro Arg Ser
 35 40 45
 Ser Tyr Arg Glu Ala Thr Thr Val Asp Cys Asn Asp Leu Phe Leu
 50 55 60
 Thr Ala Val Pro Pro Ala Leu Pro Ala Gly Thr Gln Thr Leu Leu
 65 70 75
 Leu Gln Ser Asn Ser Ile Val Arg Val Asp Gln Ser Glu Leu Gly
 80 85 90
 Tyr Leu Ala Asn Leu Thr Glu Leu Asp Leu Ser Gln Asn Ser Phe
 95 100 105
 Ser Asp Ala Arg Asp Cys Asp Phe His Ala Leu Pro Gln Leu Leu
 110 115 120
 Ser Leu His Leu Glu Glu Asn Gln Leu Thr Arg Leu Glu Asp His
 125 130 135
 Ser Phe Ala Gly Leu Ala Ser Leu Gln Glu Leu Tyr Leu Asn His
 140 145 150
 Asn Gln Leu Tyr Arg Ile Ala Pro Arg Ala Phe Ser Gly Leu Ser
 155 160 165
 Asn Leu Leu Arg Leu His Leu Asn Ser Asn Leu Leu Arg Ala Ile
 170 175 180
 Asp Ser Arg Trp Phe Glu Met Leu Pro Asn Leu Glu Ile Leu Met
 185 190 195
 Ile Gly Gly Asn Lys Val Asp Ala Ile Leu Asp Met Asn Phe Arg
 200 205 210
 Pro Leu Ala Asn Leu Arg Ser Leu Val Leu Ala Gly Met Asn Leu
 215 220 225

P1618P2C3.txt

Arg	Glu	Ile	Ser	Asp	Tyr	Ala	Leu	Glu	Gly	Leu	Gln	Ser	Leu	Glu
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Ser	Leu	Ser	Phe	Tyr	Asp	Asn	Gln	Leu	Ala	Arg	Val	Pro	Arg	Arg
				245					250					255
Ala	Leu	Glu	Gln	Val	Pro	Gly	Leu	Lys	Phe	Leu	Asp	Leu	Asn	Lys
				260					265					270
Asn	Pro	Leu	Gln	Arg	Val	Gly	Pro	Gly	Asp	Phe	Ala	Asn	Met	Leu
				275					280					285
His	Leu	Lys	Glu	Leu	Gly	Leu	Asn	Asn	Met	Glu	Glu	Leu	Val	Ser
				290					295					300
Ile	Asp	Lys	Phe	Ala	Leu	Val	Asn	Leu	Pro	Glu	Leu	Thr	Lys	Leu
				305					310					315
Asp	Ile	Thr	Asn	Asn	Pro	Arg	Leu	Ser	Phe	Ile	His	Pro	Arg	Ala
				320					325					330
Phe	His	His	Leu	Pro	Gln	Met	Glu	Thr	Leu	Met	Leu	Asn	Asn	Asn
				335					340					345
Ala	Leu	Ser	Ala	Leu	His	Gln	Gln	Thr	Val	Glu	Ser	Leu	Pro	Asn
				350					355					360
Leu	Gln	Glu	Val	Gly	Leu	His	Gly	Asn	Pro	Ile	Arg	Cys	Asp	Cys
				365					370					375
Val	Ile	Arg	Trp	Ala	Asn	Ala	Thr	Gly	Thr	Arg	Val	Arg	Phe	Ile
				380					385					390
Glu	Pro	Gln	Ser	Thr	Leu	Cys	Ala	Glu	Pro	Pro	Asp	Leu	Gln	Arg
				395					400					405
Leu	Pro	Val	Arg	Glu	Val	Pro	Phe	Arg	Glu	Met	Thr	Asp	His	Cys
				410					415					420
Leu	Pro	Leu	Ile	Ser	Pro	Arg	Ser	Phe	Pro	Pro	Ser	Leu	Gln	Val
				425					430					435
Ala	Ser	Gly	Glu	Ser	Met	Val	Leu	His	Cys	Arg	Ala	Leu	Ala	Glu
				440					445					450
Pro	Glu	Pro	Glu	Ile	Tyr	Trp	Val	Thr	Pro	Ala	Gly	Leu	Arg	Leu
				455					460					465
Thr	Pro	Ala	His	Ala	Gly	Arg	Arg	Tyr	Arg	Val	Tyr	Pro	Glu	Gly
				470					475					480
Thr	Leu	Glu	Leu	Arg	Arg	Val	Thr	Ala	Glu	Glu	Ala	Gly	Leu	Tyr
				485					490					495
Thr	Cys	Val	Ala	Gln	Asn	Leu	Val	Gly	Ala	Asp	Thr	Lys	Thr	Val
				500					505					510
Ser	Val	Val	Val	Gly	Arg	Ala	Leu	Leu	Gln	Pro	Gly	Arg	Asp	Glu
				515					520					525
Gly	Gln	Gly	Leu	Glu	Leu	Arg	Val	Gln	Glu	Thr	His	Pro	Tyr	His
				530					535					540

P1618P2C3.txt

Ile	Leu	Leu	Ser	Trp	Val	Thr	Pro	Pro	Asn	Thr	Val	Ser	Thr	Asn
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Leu	Thr	Trp	Ser	Ser	Ala	Ser	Ser	Leu	Arg	Gly	Gln	Gly	Ala	Thr
				560					565					570
Ala	Leu	Ala	Arg	Leu	Pro	Arg	Gly	Thr	His	Ser	Tyr	Asn	Ile	Thr
				575					580					585
Arg	Leu	Leu	Gln	Ala	Thr	Glu	Tyr	Trp	Ala	Cys	Leu	Gln	Val	Ala
				590					595					600
Phe	Ala	Asp	Ala	His	Thr	Gln	Leu	Ala	Cys	Val	Trp	Ala	Arg	Thr
				605					610					615
Lys	Glu	Ala	Thr	Ser	Cys	His	Arg	Ala	Leu	Gly	Asp	Arg	Pro	Gly
				620					625					630
Leu	Ile	Ala	Ile	Leu	Ala	Leu	Ala	Val	Leu	Leu	Leu	Ala	Ala	Gly
				635					640					645
Leu	Ala	Ala	His	Leu	Gly	Thr	Gly	Gln	Pro	Arg	Lys	Gly	Val	Gly
				650					655					660
Gly	Arg	Arg	Pro	Leu	Pro	Pro	Ala	Trp	Ala	Phe	Trp	Gly	Trp	Ser
				665					670					675
Ala	Pro	Ser	Val	Arg	Val	Val	Ser	Ala	Pro	Leu	Val	Leu	Pro	Trp
				680					685					690
Asn	Pro	Gly	Arg	Lys	Leu	Pro	Arg	Ser	Ser	Glu	Gly	Glu	Thr	Leu
				695					700					705
Leu	Pro	Pro	Leu	Ser	Gln	Asn	Ser							
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<210> 246
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 246
 aacaaggtaa gatgccatcc tg 22

<210> 247
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 247
 aaacttgatcg atggagacca gctc 24

<210> 248
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 248

aggggctgca aagcctggag agcctctcct tctatgacaa ccagc 45

<210> 249

<211> 3401

<212> DNA

<213> Homo Sapien

<400> 249

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 catcaagttc gacgtggact gcaccgtgga cattgagagc ctgacgggct 200
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 aaggacaaca acctcaagac catcgaggag atcatcagct tccagcacct 1200
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P1618P2C3.txt

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aacggtgctc cattcgcacc tcccctcctc gtgcctgcc tgctctcca 2850

P1618P2C3.txt

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 <211> 546
 <212> PRT
 <213> Homo Sapien

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 20 25 30
 Cys Thr Val Asp Ile Glu Ser Leu Thr Gly Tyr Arg Thr Tyr Arg
 35 40 45
 Cys Ala His Pro Leu Ala Thr Leu Phe Lys Ile Leu Ala Ser Phe
 50 55 60
 Tyr Ile Ser Leu Val Ile Phe Tyr Gly Leu Ile Cys Met Tyr Thr
 65 70 75
 Leu Trp Trp Met Leu Arg Arg Ser Leu Lys Lys Tyr Ser Phe Glu
 80 85 90
 Ser Ile Arg Glu Glu Ser Ser Tyr Ser Asp Ile Pro Asp Val Lys
 95 100 105
 Asn Asp Phe Ala Phe Met Leu His Leu Ile Asp Gln Tyr Asp Pro
 110 115 120
 Leu Tyr Ser Lys Arg Phe Ala Val Phe Leu Ser Glu Val Ser Glu
 125 130 135
 Asn Lys Leu Arg Gln Leu Asn Leu Asn Asn Glu Trp Thr Leu Asp
 140 145 150
 Lys Leu Arg Gln Arg Leu Thr Lys Asn Ala Gln Asp Lys Leu Glu
 155 160 165

P1618P2C3.txt

Leu	His	Leu	Phe	Met	Leu	Ser	Gly	Ile	Pro	Asp	Thr	Val	Phe	Asp
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Leu	Val	Glu	Leu	Glu	Val	Leu	Lys	Leu	Glu	Leu	Ile	Pro	Asp	Val
				185					190					195
Thr	Ile	Pro	Pro	Ser	Ile	Ala	Gln	Leu	Thr	Gly	Leu	Lys	Glu	Leu
				200					205					210
Trp	Leu	Tyr	His	Thr	Ala	Ala	Lys	Ile	Glu	Ala	Pro	Ala	Leu	Ala
				215					220					225
Phe	Leu	Arg	Glu	Asn	Leu	Arg	Ala	Leu	His	Ile	Lys	Phe	Thr	Asp
				230					235					240
Ile	Lys	Glu	Ile	Pro	Leu	Trp	Ile	Tyr	Ser	Leu	Lys	Thr	Leu	Glu
				245					250					255
Glu	Leu	His	Leu	Thr	Gly	Asn	Leu	Ser	Ala	Glu	Asn	Asn	Arg	Tyr
				260					265					270
Ile	Val	Ile	Asp	Gly	Leu	Arg	Glu	Leu	Lys	Arg	Leu	Lys	Val	Leu
				275					280					285
Arg	Leu	Lys	Ser	Asn	Leu	Ser	Lys	Leu	Pro	Gln	Val	Val	Thr	Asp
				290					295					300
Val	Gly	Val	His	Leu	Gln	Lys	Leu	Ser	Ile	Asn	Asn	Glu	Gly	Thr
				305					310					315
Lys	Leu	Ile	Val	Leu	Asn	Ser	Leu	Lys	Lys	Met	Ala	Asn	Leu	Thr
				320					325					330
Glu	Leu	Glu	Leu	Ile	Arg	Cys	Asp	Leu	Glu	Arg	Ile	Pro	His	Ser
				335					340					345
Ile	Phe	Ser	Leu	His	Asn	Leu	Gln	Glu	Ile	Asp	Leu	Lys	Asp	Asn
				350					355					360
Asn	Leu	Lys	Thr	Ile	Glu	Glu	Ile	Ile	Ser	Phe	Gln	His	Leu	His
				365					370					375
Arg	Leu	Thr	Cys	Leu	Lys	Leu	Trp	Tyr	Asn	His	Ile	Ala	Tyr	Ile
				380					385					390
Pro	Ile	Gln	Ile	Gly	Asn	Leu	Thr	Asn	Leu	Glu	Arg	Leu	Tyr	Leu
				395					400					405
Asn	Arg	Asn	Lys	Ile	Glu	Lys	Ile	Pro	Thr	Gln	Leu	Phe	Tyr	Cys
				410					415					420
Arg	Lys	Leu	Arg	Tyr	Leu	Asp	Leu	Ser	His	Asn	Asn	Leu	Thr	Phe
				425					430					435
Leu	Pro	Ala	Asp	Ile	Gly	Leu	Leu	Gln	Asn	Leu	Gln	Asn	Leu	Ala
				440					445					450
Ile	Thr	Ala	Asn	Arg	Ile	Glu	Thr	Leu	Pro	Pro	Glu	Leu	Phe	Gln
				455					460					465
Cys	Arg	Lys	Leu	Arg	Ala	Leu	His	Leu	Gly	Asn	Asn	Val	Leu	Gln
				470					475					480

P1618P2C3.txt

Ser Leu Pro Ser Arg Val Gly Glu Leu Thr Asn Leu Thr Gln Ile
485 490 495
Glu Leu Arg Gly Asn Arg Leu Glu Cys Leu Pro Val Glu Leu Gly
500 505 510
Glu Cys Pro Leu Leu Lys Arg Ser Gly Leu Val Val Glu Glu Asp
515 520 525
Leu Phe Asn Thr Leu Pro Pro Glu Val Lys Glu Arg Leu Trp Arg
530 535 540
Ala Asp Lys Glu Gln Ala
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<210> 251
<211> 20
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<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 251
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<210> 252
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 252
gatggctagg ttctggaggt tctg 24

<210> 253
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 253
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<210> 254
<211> 1650
<212> DNA
<213> Homo Sapien

<400> 254
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gcgctctccc gtcccgcggt ggttgctgct gctgccgctg ctgctgggccc 100
tgaacgcagg agctgtcatt gactggccca cagaggaggg caaggaagta 150
tgggattatg tgacggtccg caaggatgcc tacatgttct ggtggctcta 200

P1618P2C3.txt

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<211> 452

<212> PRT

<213> Homo Sapien

P1618P2C3.txt

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      20      25      30
Trp Pro Thr Glu Glu Gly Lys Glu Val Trp Asp Tyr Val Thr Val
      35      40      45
Arg Lys Asp Ala Tyr Met Phe Trp Trp Leu Tyr Tyr Ala Thr Asn
      50      55      60
Ser Cys Lys Asn Phe Ser Glu Leu Pro Leu Val Met Trp Leu Gln
      65      70      75
Gly Gly Pro Gly Gly Ser Ser Thr Gly Phe Gly Asn Phe Glu Glu
      80      85      90
Ile Gly Pro Leu Asp Ser Asp Leu Lys Pro Arg Lys Thr Thr Trp
      95     100     105
Leu Gln Ala Ala Ser Leu Leu Phe Val Asp Asn Pro Val Gly Thr
     110     115     120
Gly Phe Ser Tyr Val Asn Gly Ser Gly Ala Tyr Ala Lys Asp Leu
     125     130     135
Ala Met Val Ala Ser Asp Met Met Val Leu Leu Lys Thr Phe Phe
     140     145     150
Ser Cys His Lys Glu Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser
     155     160     165
Glu Ser Tyr Gly Gly Lys Met Ala Ala Gly Ile Gly Leu Glu Leu
     170     175     180
Tyr Lys Ala Ile Gln Arg Gly Thr Ile Lys Cys Asn Phe Ala Gly
     185     190     195
Val Ala Leu Gly Asp Ser Trp Ile Ser Pro Val Asp Ser Val Leu
     200     205     210
Ser Trp Gly Pro Tyr Leu Tyr Ser Met Ser Leu Leu Glu Asp Lys
     215     220     225
Gly Leu Ala Glu Val Ser Lys Val Ala Glu Gln Val Leu Asn Ala
     230     235     240
Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu Leu Trp Gly Lys
     245     250     255
Ala Glu Met Ile Ile Glu Gln Asn Thr Asp Gly Val Asn Phe Tyr
     260     265     270
Asn Ile Leu Thr Lys Ser Thr Pro Thr Ser Thr Met Glu Ser Ser
     275     280     285
Leu Glu Phe Thr Gln Ser His Leu Val Cys Leu Cys Gln Arg His
     290     295     300
Val Arg His Leu Gln Arg Asp Ala Leu Ser Gln Leu Met Asn Gly
     305     310     315

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P1618P2C3.txt

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				335					340					345
Met	Lys	Pro	Val	Ile	Ser	Ile	Val	Asp	Glu	Leu	Leu	Glu	Ala	Gly
				350					355					360
Ile	Asn	Val	Thr	Val	Tyr	Asn	Gly	Gln	Leu	Asp	Leu	Ile	Val	Asp
				365					370					375
Thr	Met	Gly	Gln	Glu	Ala	Trp	Val	Arg	Lys	Leu	Lys	Trp	Pro	Glu
				380					385					390
Leu	Pro	Lys	Phe	Ser	Gln	Leu	Lys	Trp	Lys	Ala	Leu	Tyr	Ser	Asp
				395					400					405
Pro	Lys	Ser	Leu	Glu	Thr	Ser	Ala	Phe	Val	Lys	Ser	Tyr	Lys	Asn
				410					415					420
Leu	Ala	Phe	Tyr	Trp	Ile	Leu	Lys	Ala	Gly	His	Met	Val	Pro	Ser
				425					430					435
Asp	Gln	Gly	Asp	Met	Ala	Leu	Lys	Met	Met	Arg	Leu	Val	Thr	Gln
				440					445					450

Gln Glu

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 <211> 1100
 <212> DNA
 <213> Homo Sapien

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P1618P2C3.txt

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 ttgatgcctt gcagggcatt cttcaaaaaa aaaaaaaaaa aaaaaaaaaa 1100

<210> 257

<211> 314

<212> PRT

<213> Homo Sapien

<400> 257

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				20					25					30
Gly	Pro	Cys	Gly	Arg	Arg	Val	Ile	Thr	Ser	Arg	Ile	Val	Gly	Gly
				35					40					45
Glu	Asp	Ala	Glu	Leu	Gly	Arg	Trp	Pro	Trp	Gln	Gly	Ser	Leu	Arg
				50					55					60
Leu	Trp	Asp	Ser	His	Val	Cys	Gly	Val	Ser	Leu	Leu	Ser	His	Arg
				65					70					75
Trp	Ala	Leu	Thr	Ala	Ala	His	Cys	Phe	Glu	Thr	Tyr	Ser	Asp	Leu
				80					85					90
Ser	Asp	Pro	Ser	Gly	Trp	Met	Val	Gln	Phe	Gly	Gln	Leu	Thr	Ser
				95					100					105
Met	Pro	Ser	Phe	Trp	Ser	Leu	Gln	Ala	Tyr	Tyr	Thr	Arg	Tyr	Phe
				110					115					120
Val	Ser	Asn	Ile	Tyr	Leu	Ser	Pro	Arg	Tyr	Leu	Gly	Asn	Ser	Pro
				125					130					135
Tyr	Asp	Ile	Ala	Leu	Val	Lys	Leu	Ser	Ala	Pro	Val	Thr	Tyr	Thr
				140					145					150
Lys	His	Ile	Gln	Pro	Ile	Cys	Leu	Gln	Ala	Ser	Thr	Phe	Glu	Phe
				155					160					165
Glu	Asn	Arg	Thr	Asp	Cys	Trp	Val	Thr	Gly	Trp	Gly	Tyr	Ile	Lys
				170					175					180
Glu	Asp	Glu	Ala	Leu	Pro	Ser	Pro	His	Thr	Leu	Gln	Glu	Val	Gln
				185					190					195

P1618P2C3.txt

Val	Ala	Ile	Ile	Asn	Asn	Ser	Met	Cys	Asn	His	Leu	Phe	Leu	Lys
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Tyr	Ser	Phe	Arg	Lys	Asp	Ile	Phe	Gly	Asp	Met	Val	Cys	Ala	Gly
				215					220					225
Asn	Ala	Gln	Gly	Gly	Lys	Asp	Ala	Cys	Phe	Gly	Asp	Ser	Gly	Gly
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Pro	Leu	Ala	Cys	Asn	Lys	Asn	Gly	Leu	Trp	Tyr	Gln	Ile	Gly	Val
				245					250					255
Val	Ser	Trp	Gly	Val	Gly	Cys	Gly	Arg	Pro	Asn	Arg	Pro	Gly	Val
				260					265					270
Tyr	Thr	Asn	Ile	Ser	His	His	Phe	Glu	Trp	Ile	Gln	Lys	Leu	Met
				275					280					285
Ala	Gln	Ser	Gly	Met	Ser	Gln	Pro	Asp	Pro	Ser	Trp	Pro	Leu	Leu
				290					295					300
Phe	Phe	Pro	Leu	Leu	Trp	Ala	Leu	Pro	Leu	Leu	Gly	Pro	Val	
				305					310					

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 <211> 2427
 <212> DNA
 <213> Homo Sapien

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P1618P2C3.txt

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 gagcacagga tccttagtgg ccgccccctt cttggctttc tcaaccaag 1550
 gctctaccag cagcatgggg caggtctctt tgatgtaacc cgtggctgcc 1600
 atgagtcctg tctggatgaa gaggtagagg gccagggttt ctgctctggt 1650
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 aacctgaaa tgctgtgagc ttgacttgac tccaacctt accatgctcc 1900
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 gtaactagca ttttttgaat gcctctccct ccgcatctca tctttctctt 2000
 ttcaatcagg cttttccaaa gggttgtata cagactctgt gcactatttc 2050
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aatgattgat acctcaaag taaaaaa 2427

<210> 259

<211> 556

<212> PRT

<213> Homo Sapien

<400> 259

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Met Gly Leu Gln Ala Cys Leu Leu Gly Leu Phe Ala Leu Ile Leu
  1           5           10           15
Ser Gly Lys Cys Ser Tyr Ser Pro Glu Pro Asp Gln Arg Arg Thr
           20           25           30
Leu Pro Pro Gly Trp Val Ser Leu Gly Arg Ala Asp Pro Glu Glu
           35           40           45
Glu Leu Ser Leu Thr Phe Ala Leu Arg Gln Gln Asn Val Glu Arg
           50           55           60
Leu Ser Glu Leu Val Gln Ala Val Ser Asp Pro Ser Ser Pro Gln
           65           70           75
Tyr Gly Lys Tyr Leu Thr Leu Glu Asn Val Ala Asp Leu Val Arg
           80           85           90
Pro Ser Pro Leu Thr Leu His Thr Val Gln Lys Trp Leu Leu Ala
           95          100          105
Ala Gly Ala Gln Lys Cys His Ser Val Ile Thr Gln Asp Phe Leu
          110          115          120
Thr Cys Trp Leu Ser Ile Arg Gln Ala Glu Leu Leu Leu Pro Gly
          125          130          135
Ala Glu Phe His His Tyr Val Gly Gly Pro Thr Glu Thr His Val
          140          145          150
Val Arg Ser Pro His Pro Tyr Gln Leu Pro Gln Ala Leu Ala Pro
          155          160          165
His Val Asp Phe Val Gly Gly Leu His Arg Phe Pro Pro Thr Ser
          170          175          180
Ser Leu Arg Gln Arg Pro Glu Pro Gln Val Thr Gly Thr Val Gly
          185          190          195
Leu His Leu Gly Val Thr Pro Ser Val Ile Arg Lys Arg Tyr Asn
          200          205          210
Leu Thr Ser Gln Asp Val Gly Ser Gly Thr Ser Asn Asn Ser Gln
          215          220          225
Ala Cys Ala Gln Phe Leu Glu Gln Tyr Phe His Asp Ser Asp Leu
          230          235          240
Ala Gln Phe Met Arg Leu Phe Gly Gly Asn Phe Ala His Gln Ala
          245          250          255
Ser Val Ala Arg Val Val Gly Gln Gln Gly Arg Gly Arg Ala Gly
          260          265          270
Ile Glu Ala Ser Leu Asp Val Gln Tyr Leu Met Ser Ala Gly Ala

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P1618P2C3.txt

275	280	285
Asn Ile Ser Thr Trp Val Tyr Ser Ser Pro Gly Arg His Glu Gly	290	300
Gln Glu Pro Phe Leu Gln Trp Leu Met Leu Leu Ser Asn Glu Ser	305	315
Ala Leu Pro His Val His Thr Val Ser Tyr Gly Asp Asp Glu Asp	320	330
Ser Leu Ser Ser Ala Tyr Ile Gln Arg Val Asn Thr Glu Leu Met	335	345
Lys Ala Ala Ala Arg Gly Leu Thr Leu Leu Phe Ala Ser Gly Asp	350	360
Ser Gly Ala Gly Cys Trp Ser Val Ser Gly Arg His Gln Phe Arg	365	375
Pro Thr Phe Pro Ala Ser Ser Pro Tyr Val Thr Thr Val Gly Gly	380	390
Thr Ser Phe Gln Glu Pro Phe Leu Ile Thr Asn Glu Ile Val Asp	395	405
Tyr Ile Ser Gly Gly Gly Phe Ser Asn Val Phe Pro Arg Pro Ser	410	420
Tyr Gln Glu Glu Ala Val Thr Lys Phe Leu Ser Ser Ser Pro His	425	435
Leu Pro Pro Ser Ser Tyr Phe Asn Ala Ser Gly Arg Ala Tyr Pro	440	450
Asp Val Ala Ala Leu Ser Asp Gly Tyr Trp Val Val Ser Asn Arg	455	465
Val Pro Ile Pro Trp Val Ser Gly Thr Ser Ala Ser Thr Pro Val	470	480
Phe Gly Gly Ile Leu Ser Leu Ile Asn Glu His Arg Ile Leu Ser	485	495
Gly Arg Pro Pro Leu Gly Phe Leu Asn Pro Arg Leu Tyr Gln Gln	500	510
His Gly Ala Gly Leu Phe Asp Val Thr Arg Gly Cys His Glu Ser	515	525
Cys Leu Asp Glu Glu Val Glu Gly Gln Gly Phe Cys Ser Gly Pro	530	540
Gly Trp Asp Pro Val Thr Gly Trp Gly Thr Pro Thr Ser Gln Leu	545	555

Cys

<210> 260
 <211> 1638
 <212> DNA
 <213> Homo Sapien

P1618P2C3.txt

<400> 260

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agtgcgcct tacagtgcgc cctggaaacc cacttggcct gcataccgcc 200
tccctgtcgt cttgccccag tctaccctca atttagccaa gccagacttt 250
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taagggaact cactgcccc cttacgaaga ggccaagcaa tatctgtctt 350
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atgccaatga catcggcatg gattatgatt atgccctcct ggaactcaaa 850
aagccccaca agagaaaatt tatgaagatt ggggtgagcc ctctgtctaa 900
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tgactggctt tactatttga aaactgggtt gtgtatcata tcatatatca 1450
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tttggggcaa tgaggaatat ttgacaatta agttaatctt cacgtttttg 1550

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P1618P2C3.txt

caaactttga tttttatttc atctgaactt gtttcaaaga tttatattaa 1600
atatttggca tacaagagat atgaaaaaaaa aaaaaaaaa 1638

<210> 261
<211> 383
<212> PRT
<213> Homo Sapien

<400> 261
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1 5 10 15
Cys Ala Val Gly Gln Val Ser Pro Tyr Ser Ala Pro Trp Lys Pro
20 25 30
Thr Trp Pro Ala Tyr Arg Leu Pro Val Val Leu Pro Gln Ser Thr
35 40 45
Leu Asn Leu Ala Lys Pro Asp Phe Gly Ala Glu Ala Lys Leu Glu
50 55 60
Val Ser Ser Ser Cys Gly Pro Gln Cys His Lys Gly Thr Pro Leu
65 70 75
Pro Thr Tyr Glu Glu Ala Lys Gln Tyr Leu Ser Tyr Glu Thr Leu
80 85 90
Tyr Ala Asn Gly Ser Arg Thr Glu Thr Gln Val Gly Ile Tyr Ile
95 100 105
Leu Ser Ser Ser Gly Asp Gly Ala Gln His Arg Asp Ser Gly Ser
110 115 120
Ser Gly Lys Ser Arg Arg Lys Arg Gln Ile Tyr Gly Tyr Asp Ser
125 130 135
Arg Phe Ser Ile Phe Gly Lys Asp Phe Leu Leu Asn Tyr Pro Phe
140 145 150
Ser Thr Ser Val Lys Leu Ser Thr Gly Cys Thr Gly Thr Leu Val
155 160 165
Ala Glu Lys His Val Leu Thr Ala Ala His Cys Ile His Asp Gly
170 175 180
Lys Thr Tyr Val Lys Gly Thr Gln Lys Leu Arg Val Gly Phe Leu
185 190 195
Lys Pro Lys Phe Lys Asp Gly Gly Arg Gly Ala Asn Asp Ser Thr
200 205 210
Ser Ala Met Pro Glu Gln Met Lys Phe Gln Trp Ile Arg Val Lys
215 220 225
Arg Thr His Val Pro Lys Gly Trp Ile Lys Gly Asn Ala Asn Asp
230 235 240
Ile Gly Met Asp Tyr Asp Tyr Ala Leu Leu Glu Leu Lys Lys Pro
245 250 255
His Lys Arg Lys Phe Met Lys Ile Gly Val Ser Pro Pro Ala Lys
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P1618P2C3.txt

260		265		270
Gln Leu Pro Gly	Gly Arg Ile His Phe	Ser Gly Tyr Asp Asn	Asp	
	275	280	285	
Arg Pro Gly Asn	Leu Val Tyr Arg Phe	Cys Asp Val Lys Asp	Glu	
	290	295	300	
Thr Tyr Asp Leu	Leu Tyr Gln Gln Cys	Asp Ala Gln Pro Gly	Ala	
	305	310	315	
Ser Gly Ser Gly	Val Tyr Val Arg Met	Trp Lys Arg Gln Gln	Gln	
	320	325	330	
Lys Trp Glu Arg	Lys Ile Ile Gly Ile	Phe Ser Gly His Gln	Trp	
	335	340	345	
Val Asp Met Asn	Gly Ser Pro Gln Asp	Phe Asn Val Ala Val	Arg	
	350	355	360	
Ile Thr Pro Leu	Lys Tyr Ala Gln Ile	Cys Tyr Trp Ile Lys	Gly	
	365	370	375	
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	380			

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 <211> 1378
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 <213> Homo Sapien

<400> 262
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 caggatacct gttccccag cctgtgggaa gccccagcag ctgaaccggg 200
 ttgtgggcgg cgaggacagc actgacagcg agtggccctg gatcgtgagc 250
 atccagaaga atgggaccca cactgcgca gggtctctgc tcaccagccg 300
 ctgggtgatc actgctgccc actgtttcaa ggacaacctg aacaaaccat 350
 acctgttctc tgtgctgctg ggggcctggc agctggggaa ccctggctct 400
 cgggtcccaga aggtgggtgt tgcctgggtg gagccccacc ctgtgtattc 450
 ctggaaggaa ggtgcctgtg cagacattgc cctggtgcgt ctcgagcgct 500
 ccatacagtt ctcagagcgg gtcctgcca tctgcctacc tgatgcctct 550
 atccacctcc ctccaaacac cactgctgg atctcaggct gggggagcat 600
 ccaagatgga gttcccttgc cccaccctca gaccctgcag aagctgaagg 650
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 ggacagggac ccactactga ggacatgctg tgtgccggct acttgagggg 750
 ggagcgggat gcttgtctgg gcgactccgg gggccccctc atgtgccagg 800

P1618P2C3.txt

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gccgagcgca acaggccccg ggtctacatc agcctctctg cgcaccgctc 900
ctgggtggag aagatcgtgc aaggggtgca gctccgcggg cgcgctcagg 950
gggggtggggc cctcagggca ccgagccagg gctctggggc cgccgcgcgc 1000
tcctagggcg cagcgggacg cggggctcgg atctgaaagg cggccagatc 1050
cacatctgga tctggatctg cggcggcctc gggcgggtttc ccccgccgta 1100
aataggctca tctacctcta cctctggggg cccggacggc tgctgcggaa 1150
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catcaggccc cgcccaacgg cctcatgtcc ccgccccac gacttccggc 1250
cccgcccccg ggccccagcg cttttgtgta tataaatgtt aatgattttt 1300
ataggtattt gtaaccctgc ccacatatct tatttattcc tccaatttca 1350
ataaattatt tattctcaa aaaaaaa 1378

<210> 263
<211> 317
<212> PRT
<213> Homo Sapien

<400> 263
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Gly Thr Phe Thr Ser Leu Leu Leu Leu Ala Ser Thr Ala Ile Leu
20 25 30
Asn Ala Ala Arg Ile Pro Val Pro Pro Ala Cys Gly Lys Pro Gln
35 40 45
Gln Leu Asn Arg Val Val Gly Gly Glu Asp Ser Thr Asp Ser Glu
50 55 60
Trp Pro Trp Ile Val Ser Ile Gln Lys Asn Gly Thr His His Cys
65 70 75
Ala Gly Ser Leu Leu Thr Ser Arg Trp Val Ile Thr Ala Ala His
80 85 90
Cys Phe Lys Asp Asn Leu Asn Lys Pro Tyr Leu Phe Ser Val Leu
95 100 105
Leu Gly Ala Trp Gln Leu Gly Asn Pro Gly Ser Arg Ser Gln Lys
110 115 120
Val Gly Val Ala Trp Val Glu Pro His Pro Val Tyr Ser Trp Lys
125 130 135
Glu Gly Ala Cys Ala Asp Ile Ala Leu Val Arg Leu Glu Arg Ser
140 145 150
Ile Gln Phe Ser Glu Arg Val Leu Pro Ile Cys Leu Pro Asp Ala
155 160 165

P1618P2C3.txt

Ser	Ile	His	Leu	Pro	Pro	Asn	Thr	His	Cys	Trp	Ile	Ser	Gly	Trp
				170					175					180
Gly	Ser	Ile	Gln	Asp	Gly	Val	Pro	Leu	Pro	His	Pro	Gln	Thr	Leu
				185					190					195
Gln	Lys	Leu	Lys	Val	Pro	Ile	Ile	Asp	Ser	Glu	Val	Cys	Ser	His
				200					205					210
Leu	Tyr	Trp	Arg	Gly	Ala	Gly	Gln	Gly	Pro	Ile	Thr	Glu	Asp	Met
				215					220					225
Leu	Cys	Ala	Gly	Tyr	Leu	Glu	Gly	Glu	Arg	Asp	Ala	Cys	Leu	Gly
				230					235					240
Asp	Ser	Gly	Gly	Pro	Leu	Met	Cys	Gln	Val	Asp	Gly	Ala	Trp	Leu
				245					250					255
Leu	Ala	Gly	Ile	Ile	Ser	Trp	Gly	Glu	Gly	Cys	Ala	Glu	Arg	Asn
				260					265					270
Arg	Pro	Gly	Val	Tyr	Ile	Ser	Leu	Ser	Ala	His	Arg	Ser	Trp	Val
				275					280					285
Glu	Lys	Ile	Val	Gln	Gly	Val	Gln	Leu	Arg	Gly	Arg	Ala	Gln	Gly
				290					295					300
Gly	Gly	Ala	Leu	Arg	Ala	Pro	Ser	Gln	Gly	Ser	Gly	Ala	Ala	Ala
				305					310					315

Arg Ser

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 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 264
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<210> 265
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 265
 gcagaggtgt ctaaggttg 19

<210> 266
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 266
agctctagac caatgccagc ttcc 24

<210> 267
<211> 45
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<220>
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<400> 267
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<400> 268
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<210> 269
<211> 24
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<400> 269
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<210> 270
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<220>
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<400> 270
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<210> 271
<211> 26
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 271
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<210> 272
<211> 18
<212> DNA
<213> Artificial Sequence

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<400> 272
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<210> 273
<211> 18
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 273
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<210> 274
<211> 24
<212> DNA
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<220>
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<400> 274
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<210> 275
<211> 45
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<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 275
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<210> 276
<211> 21
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 276
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<210> 277
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 277
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<210> 278

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<211> 18
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 <213> Artificial Sequence

<220>
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<400> 278
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<210> 279
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 279
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<210> 280
 <211> 45
 <212> DNA
 <213> Artificial Sequence

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<400> 280
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<210> 281
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 281
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<210> 282
 <211> 61
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 282
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 tgccaggtgg a 61

<210> 283
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 <212> DNA
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P1618P2C3.txt

<400> 283
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 atgctgtgtg ccggctact 119

<210> 284
 <211> 1875
 <212> DNA
 <213> Homo Sapien

<400> 284
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P1618P2C3.txt

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<210> 285

<211> 463

<212> PRT

<213> Homo Sapien

<400> 285

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			20						25				30
Glu	Glu	Lys	Arg	Leu	Met	Val	Glu	Leu	His	Asn	Leu	Tyr	Arg
			35						40				45
Gln	Val	Ser	Pro	Thr	Ala	Ser	Asp	Met	Leu	His	Met	Arg	Trp
			50						55				60
Glu	Glu	Leu	Ala	Ala	Phe	Ala	Lys	Ala	Tyr	Ala	Arg	Gln	Cys
			65						70				75
Trp	Gly	His	Asn	Lys	Glu	Arg	Gly	Arg	Arg	Gly	Glu	Asn	Leu
			80						85				90
Ala	Ile	Thr	Asp	Glu	Gly	Met	Asp	Val	Pro	Leu	Ala	Met	Glu
			95						100				105
Trp	His	His	Glu	Arg	Glu	His	Tyr	Asn	Leu	Ser	Ala	Ala	Thr
			110						115				120
Ser	Pro	Gly	Gln	Met	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp
			125						130				135
Lys	Thr	Glu	Arg	Ile	Gly	Cys	Gly	Ser	His	Phe	Cys	Glu	Lys
			140						145				150

P1618P2C3.txt

Gln Gly Val Glu	Glu Thr Asn Ile Glu	Leu Leu Val Cys Asn Tyr
155	160	165
Glu Pro Pro Gly	Asn Val Lys Gly Lys	Arg Pro Tyr Gln Glu Gly
170	175	180
Thr Pro Cys Ser	Gln Cys Pro Ser Gly	Tyr His Cys Lys Asn Ser
185	190	195
Leu Cys Glu Pro	Ile Gly Ser Pro Glu	Asp Ala Gln Asp Leu Pro
200	205	210
Tyr Leu Val Thr	Glu Ala Pro Ser Phe	Arg Ala Thr Glu Ala Ser
215	220	225
Asp Ser Arg Lys	Met Gly Thr Pro Ser	Ser Leu Ala Thr Gly Ile
230	235	240
Pro Ala Phe Leu	Val Thr Glu Val Ser	Gly Ser Leu Ala Thr Lys
245	250	255
Ala Leu Pro Ala	Val Glu Thr Gln Ala	Pro Thr Ser Leu Ala Thr
260	265	270
Lys Asp Pro Pro	Ser Met Ala Thr Glu	Ala Pro Pro Cys Val Thr
275	280	285
Thr Glu Val Pro	Ser Ile Leu Ala Ala	His Ser Leu Pro Ser Leu
290	295	300
Asp Glu Glu Pro	Val Thr Phe Pro Lys	Ser Thr His Val Pro Ile
305	310	315
Pro Lys Ser Ala	Asp Lys Val Thr Asp	Lys Thr Lys Val Pro Ser
320	325	330
Arg Ser Pro Glu	Asn Ser Leu Asp Pro	Lys Met Ser Leu Thr Gly
335	340	345
Ala Arg Glu Leu	Leu Pro His Ala Gln	Glu Glu Ala Glu Ala Glu
350	355	360
Ala Glu Leu Pro	Pro Ser Ser Glu Val	Leu Ala Ser Val Phe Pro
365	370	375
Ala Gln Asp Lys	Pro Gly Glu Leu Gln	Ala Thr Leu Asp His Thr
380	385	390
Gly His Thr Ser	Ser Lys Ser Leu Pro	Asn Phe Pro Asn Thr Ser
395	400	405
Ala Thr Ala Asn	Ala Thr Gly Gly Arg	Ala Leu Ala Leu Gln Ser
410	415	420
Ser Leu Pro Gly	Ala Glu Gly Pro Asp	Lys Pro Ser Val Val Ser
425	430	435
Gly Leu Asn Ser	Gly Pro Gly His Val	Trp Gly Pro Leu Leu Gly
440	445	450
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P1618P2C3.txt

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 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

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 <211> 24
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 <213> Homo Sapien

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P1618P2C3.txt

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P1618P2C3.txt

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<212> PRT
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				20					25					30
Ala	Ser	Ser	Met	Ser	His	Leu	Gln	Ser	Leu	Arg	Glu	Val	Lys	Leu
				35					40					45
Asn	Asn	Asn	Glu	Leu	Glu	Thr	Ile	Pro	Asn	Leu	Gly	Pro	Val	Ser
				50					55					60
Ala	Asn	Ile	Thr	Leu	Leu	Ser	Leu	Ala	Gly	Asn	Arg	Ile	Val	Glu
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Ile	Leu	Pro	Glu	His	Leu	Lys	Glu	Phe	Gln	Ser	Leu	Glu	Thr	Leu
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Asp	Leu	Ser	Ser	Asn	Asn	Ile	Ser	Glu	Leu	Gln	Thr	Ala	Phe	Pro
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Ala	Leu	Gln	Leu	Lys	Tyr	Leu	Tyr	Leu	Asn	Ser	Asn	Arg	Val	Thr
				110					115					120
Ser	Met	Glu	Pro	Gly	Tyr	Phe	Asp	Asn	Leu	Ala	Asn	Thr	Leu	Leu
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Val	Leu	Lys	Leu	Asn	Arg	Asn	Arg	Ile	Ser	Ala	Ile	Pro	Pro	Lys
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Met	Phe	Lys	Leu	Pro	Gln	Leu	Gln	His	Leu	Glu	Leu	Asn	Arg	Asn
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Lys	Ile	Lys	Asn	Val	Asp	Gly	Leu	Thr	Phe	Gln	Gly	Leu	Gly	Ala
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Leu	Lys	Ser	Leu	Lys	Met	Gln	Arg	Asn	Gly	Val	Thr	Lys	Leu	Met
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Asp	Gly	Ala	Phe	Trp	Gly	Leu	Ser	Asn	Met	Glu	Ile	Leu	Gln	Leu
				200					205					210
Asp	His	Asn	Asn	Leu	Thr	Glu	Ile	Thr	Lys	Gly	Trp	Leu	Tyr	Gly
				215					220					225
Leu	Leu	Met	Leu	Gln	Glu	Leu	His	Leu	Ser	Gln	Asn	Ala	Ile	Asn
				230					235					240
Arg	Ile	Ser	Pro	Asp	Ala	Trp	Glu	Phe	Cys	Gln	Lys	Leu	Ser	Glu
				245					250					255
Leu	Asp	Leu	Thr	Phe	Asn	His	Leu	Ser	Arg	Leu	Asp	Asp	Ser	Ser
				260					265					270
Phe	Leu	Gly	Leu	Ser	Leu	Leu	Asn	Thr	Leu	His	Ile	Gly	Asn	Asn
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Arg	Val	Ser	Tyr	Ile	Ala	Asp	Cys	Ala	Phe	Arg	Gly	Leu	Ser	Ser
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P1618P2C3.txt

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Leu Ile Leu Gln	Gly 335	Asn Arg Ile Arg	Ser 340	Ile Thr Lys Lys	Ala 345
Phe Thr Gly Leu	Asp 350	Ala Leu Glu His	Leu 355	Asp Leu Ser Asp	Asn 360
Ala Ile Met Ser	Leu 365	Gln Gly Asn Ala	Phe 370	Ser Gln Met Lys	Lys 375
Leu Gln Gln Leu	His 380	Leu Asn Thr Ser	Ser 385	Leu Leu Cys Asp	Cys 390
Gln Leu Lys Trp	Leu 395	Pro Gln Trp Val	Ala 400	Glu Asn Asn Phe	Gln 405
Ser Phe Val Asn	Ala 410	Ser Cys Ala His	Pro 415	Gln Leu Leu Lys	Gly 420
Arg Ser Ile Phe	Ala 425	Val Ser Pro Asp	Gly 430	Phe Val Cys Asp	Asp 435
Phe Pro Lys Pro	Gln 440	Ile Thr Val Gln	Pro 445	Glu Thr Gln Ser	Ala 450
Ile Lys Gly Ser	Asn 455	Leu Ser Phe Ile	Cys 460	Ser Ala Ala Ser	Ser 465
Ser Asp Ser Pro	Met 470	Thr Phe Ala Trp	Lys 475	Lys Asp Asn Glu	Leu 480
Leu His Asp Ala	Glu 485	Met Glu Asn Tyr	Ala 490	His Leu Arg Ala	Gln 495
Gly Gly Glu Val	Met 500	Glu Tyr Thr Thr	Ile 505	Leu Arg Leu Arg	Glu 510
Val Glu Phe Ala	Ser 515	Glu Gly Lys Tyr	Gln 520	Cys Val Ile Ser	Asn 525
His Phe Gly Ser	Ser 530	Tyr Ser Val Lys	Ala 535	Lys Leu Thr Val	Asn 540
Met Leu Pro Ser	Phe 545	Thr Lys Thr Pro	Met 550	Asp Leu Thr Ile	Arg 555
Ala Gly Ala Met	Ala 560	Arg Leu Glu Cys	Ala 565	Ala Val Gly His	Pro 570
Ala Pro Gln Ile	Ala 575	Trp Gln Lys Asp	Gly 580	Gly Thr Asp Phe	Pro 585
Ala Ala Arg Glu	Arg 590	Arg Met His Val	Met 595	Pro Glu Asp Asp	Val 600
Phe Phe Ile Val	Asp 605	Val Lys Ile Glu	Asp 610	Ile Gly Val Tyr	Ser 615

P1618P2C3.txt

Cys	Thr	Ala	Gln	Asn	Ser	Ala	Gly	Ser	Ile	Ser	Ala	Asn	Ala	Thr	620	625	630
Leu	Thr	Val	Leu	Glu	Thr	Pro	Ser	Phe	Leu	Arg	Pro	Leu	Leu	Asp	635	640	645
Arg	Thr	Val	Thr	Lys	Gly	Glu	Thr	Ala	Val	Leu	Gln	Cys	Ile	Ala	650	655	660
Gly	Gly	Ser	Pro	Pro	Pro	Lys	Leu	Asn	Trp	Thr	Lys	Asp	Asp	Ser	665	670	675
Pro	Leu	Val	Val	Thr	Glu	Arg	His	Phe	Phe	Ala	Ala	Gly	Asn	Gln	680	685	690
Leu	Leu	Ile	Ile	Val	Asp	Ser	Asp	Val	Ser	Asp	Ala	Gly	Lys	Tyr	695	700	705
Thr	Cys	Glu	Met	Ser	Asn	Thr	Leu	Gly	Thr	Glu	Arg	Gly	Asn	Val	710	715	720
Arg	Leu	Ser	Val	Ile	Pro	Thr	Pro	Thr	Cys	Asp	Ser	Pro	Gln	Met	725	730	735
Thr	Ala	Pro	Ser	Leu	Asp	Asp	Asp	Gly	Trp	Ala	Thr	Val	Gly	Val	740	745	750
Val	Ile	Ile	Ala	Val	Val	Cys	Cys	Val	Val	Gly	Thr	Ser	Leu	Val	755	760	765
Trp	Val	Val	Ile	Ile	Tyr	His	Thr	Arg	Arg	Arg	Asn	Glu	Asp	Cys	770	775	780
Ser	Ile	Thr	Asn	Thr	Asp	Glu	Thr	Asn	Leu	Pro	Ala	Asp	Ile	Pro	785	790	795
Ser	Tyr	Leu	Ser	Ser	Gln	Gly	Thr	Leu	Ala	Asp	Arg	Gln	Asp	Gly	800	805	810
Tyr	Val	Ser	Ser	Glu	Ser	Gly	Ser	His	His	Gln	Phe	Val	Thr	Ser	815	820	825
Ser	Gly	Ala	Gly	Phe	Phe	Leu	Pro	Gln	His	Asp	Ser	Ser	Gly	Thr	830	835	840
Cys	His	Ile	Asp	Asn	Ser	Ser	Glu	Ala	Asp	Val	Glu	Ala	Ala	Thr	845	850	855
Asp	Leu	Phe	Leu	Cys	Pro	Phe	Leu	Gly	Ser	Thr	Gly	Pro	Met	Tyr	860	865	870
Leu	Lys	Gly	Asn	Val	Tyr	Gly	Ser	Asp	Pro	Phe	Glu	Thr	Tyr	His	875	880	885
Thr	Gly	Cys	Ser	Pro	Asp	Pro	Arg	Thr	Val	Leu	Met	Asp	His	Tyr	890	895	900
Glu	Pro	Ser	Tyr	Ile	Lys	Lys	Lys	Glu	Cys	Tyr	Pro	Cys	Ser	His	905	910	915
Pro	Ser	Glu	Glu	Ser	Cys	Glu	Arg	Ser	Phe	Ser	Asn	Ile	Ser	Trp	920	925	930

P1618P2C3.txt

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Asp	Phe	Ser	Ala	Asn	Pro	Glu	Pro	Ala	Ser	Val	Ala	Ser	Ser	Asn
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Ser	Phe	Met	Gly	Thr	Phe	Gly	Lys	Ala	Leu	Arg	Arg	Pro	His	Leu
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Asp	Ala	Tyr	Ser	Ser	Phe	Gly	Gln	Pro	Ser	Asp	Cys	Gln	Pro	Arg
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Ala	Phe	Tyr	Leu	Lys	Ala	His	Ser	Ser	Pro	Asp	Leu	Asp	Ser	Gly
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Ser	Glu	Glu	Asp	Gly	Lys	Glu	Arg	Thr	Asp	Phe	Gln	Glu	Glu	Asn
				1025					1030					1035
His	Ile	Cys	Thr	Phe	Lys	Gln	Thr	Leu	Glu	Asn	Tyr	Arg	Thr	Pro
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P1618P2C3.txt

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P1618P2C3.txt

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 <212> PRT
 <213> Homo Sapien

<400> 292

Met	Leu	Asn	Lys	Met	Thr	Leu	His	Pro	Gln	Gln	Ile	Met	Ile	Gly
1				5					10					15
Pro	Arg	Phe	Asn	Arg	Ala	Leu	Phe	Asp	Pro	Leu	Leu	Val	Val	Leu
				20					25					30
Leu	Ala	Leu	Gln	Leu	Leu	Val	Val	Ala	Gly	Leu	Val	Arg	Ala	Gln
				35					40					45
Thr	Cys	Pro	Ser	Val	Cys	Ser	Cys	Ser	Asn	Gln	Phe	Ser	Lys	Val
				50					55					60
Ile	Cys	Val	Arg	Lys	Asn	Leu	Arg	Glu	Val	Pro	Asp	Gly	Ile	Ser
				65					70					75
Thr	Asn	Thr	Arg	Leu	Leu	Asn	Leu	His	Glu	Asn	Gln	Ile	Gln	Ile
				80					85					90
Ile	Lys	Val	Asn	Ser	Phe	Lys	His	Leu	Arg	His	Leu	Glu	Ile	Leu
				95					100					105
Gln	Leu	Ser	Arg	Asn	His	Ile	Arg	Thr	Ile	Glu	Ile	Gly	Ala	Phe
				110					115					120
Asn	Gly	Leu	Ala	Asn	Leu	Asn	Thr	Leu	Glu	Leu	Phe	Asp	Asn	Arg
				125					130					135
Leu	Thr	Thr	Ile	Pro	Asn	Gly	Ala	Phe	Val	Tyr	Leu	Ser	Lys	Leu
				140					145					150
Lys	Glu	Leu	Trp	Leu	Arg	Asn	Asn	Pro	Ile	Glu	Ser	Ile	Pro	Ser

P1618P2C3.txt

155	160	165
Tyr Ala Phe Asn Arg Ile Pro Ser Leu Arg Arg Leu Asp Leu Gly	170 175	180
Glu Leu Lys Arg Leu Ser Tyr Ile Ser Glu Gly Ala Phe Glu Gly	185 190	195
Leu Ser Asn Leu Arg Tyr Leu Asn Leu Ala Met Cys Asn Leu Arg	200 205	210
Glu Ile Pro Asn Leu Thr Pro Leu Ile Lys Leu Asp Glu Leu Asp	215 220	225
Leu Ser Gly Asn His Leu Ser Ala Ile Arg Pro Gly Ser Phe Gln	230 235	240
Gly Leu Met His Leu Gln Lys Leu Trp Met Ile Gln Ser Gln Ile	245 250	255
Gln Val Ile Glu Arg Asn Ala Phe Asp Asn Leu Gln Ser Leu Val	260 265	270
Glu Ile Asn Leu Ala His Asn Asn Leu Thr Leu Leu Pro His Asp	275 280	285
Leu Phe Thr Pro Leu His His Leu Glu Arg Ile His Leu His His	290 295	300
Asn Pro Trp Asn Cys Asn Cys Asp Ile Leu Trp Leu Ser Trp Trp	305 310	315
Ile Lys Asp Met Ala Pro Ser Asn Thr Ala Cys Cys Ala Arg Cys	320 325	330
Asn Thr Pro Pro Asn Leu Lys Gly Arg Tyr Ile Gly Glu Leu Asp	335 340	345
Gln Asn Tyr Phe Thr Cys Tyr Ala Pro Val Ile Val Glu Pro Pro	350 355	360
Ala Asp Leu Asn Val Thr Glu Gly Met Ala Ala Glu Leu Lys Cys	365 370	375
Arg Ala Ser Thr Ser Leu Thr Ser Val Ser Trp Ile Thr Pro Asn	380 385	390
Gly Thr Val Met Thr His Gly Ala Tyr Lys Val Arg Ile Ala Val	395 400	405
Leu Ser Asp Gly Thr Leu Asn Phe Thr Asn Val Thr Val Gln Asp	410 415	420
Thr Gly Met Tyr Thr Cys Met Val Ser Asn Ser Val Gly Asn Thr	425 430	435
Thr Ala Ser Ala Thr Leu Asn Val Thr Ala Ala Thr Thr Thr Pro	440 445	450
Phe Ser Tyr Phe Ser Thr Val Thr Val Glu Thr Met Glu Pro Ser	455 460	465
Gln Asp Glu Ala Arg Thr Thr Asp Asn Asn Val Gly Pro Thr Pro		

P1618P2C3.txt

470		475		480
Val Val Asp Trp	Glu Thr Thr Asn Val	Thr Thr Ser Leu Thr	Pro	
485		490	495	
Gln Ser Thr Arg	Ser Thr Glu Lys Thr	Phe Thr Ile Pro Val	Thr	
500		505	510	
Asp Ile Asn Ser	Gly Ile Pro Gly Ile	Asp Glu Val Met Lys	Thr	
515		520	525	
Thr Lys Ile Ile	Ile Gly Cys Phe Val	Ala Ile Thr Leu Met	Ala	
530		535	540	
Ala Val Met Leu	Val Ile Phe Tyr Lys	Met Arg Lys Gln His	His	
545		550	555	
Arg Gln Asn His	His Ala Pro Thr Arg	Thr Val Glu Ile Ile	Asn	
560		565	570	
Val Asp Asp Glu	Ile Thr Gly Asp Thr	Pro Met Glu Ser His	Leu	
575		580	585	
Pro Met Pro Ala	Ile Glu His Glu His	Leu Asn His Tyr Asn	Ser	
590		595	600	
Tyr Lys Ser Pro	Phe Asn His Thr Thr	Thr Val Asn Thr Ile	Asn	
605		610	615	
Ser Ile His Ser	Ser Val His Glu Pro	Leu Leu Ile Arg Met	Asn	
620		625	630	
Ser Lys Asp Asn	Val Gln Glu Thr Gln	Ile		
635		640		

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 <211> 4053
 <212> DNA
 <213> Homo Sapien

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 aaagaaggaa ttgaccgggc agcgcgaggg aggagcgcgc acgcgaccgc 150
 gagggcgggc gtgcaccctc ggctggaagt ttgtgccggg ccccgagcgc 200
 gcgccggctg ggagcttcgg gtagagacct aggccgctgg accgcgatga 250
 gcgcgccgag cctccgtgcg cgcgccgcgg ggttggggct gctgctgtgc 300
 gcggtgctgg ggcgcgctgg ccggtccgac agcggcggtc gcggggaact 350
 cgggcagccc tctggggtag ccgccgagcg cccatgcccc actacctgcc 400
 gctgcctcgg ggacctgctg gactgcagtc gtaagcggct agcgcgtctt 450
 cccgagccac tcccgtcctg ggctcgtcgg ctggacttaa gtcacaacag 500
 attatctttc atcaaggcaa gttccatgag ccaccttcaa agccttcgag 550

P1618P2C3.txt

aagtgaact gaacaacaat gaattggaga ccattccaaa tctgggacca 600
gtctcggcaa atattacact tctctccttg gctggaaaca ggattgttga 650
aatactccct gaacatctga aagagtttca gtcccttgaa actttggacc 700
ttagcagcaa caatatttca gagctccaaa ctgcatttcc agccctacag 750
ctcaaatatc tgtatctcaa cagcaaccga gtcacatcaa tggaacctgg 800
gtattttgac aatttggcca acacactcct tgtgttaaag ctgaacagga 850
accgaatctc agctatccca cccaagatgt ttaaactgcc ccaactgcaa 900
catctcgaat tgaaccgaaa caagattaaa aatgtagatg gactgacatt 950
ccaaggcctt ggtgctctga agtctctgaa aatgcaaaga aatggagtaa 1000
cgaaacttat ggatggagct ttttgggggc tgagcaacat ggaaattttg 1050
cagctggacc ataacaacct aacagagatt accaaaaggct ggcttttacgg 1100
cttgctgatg ctgcaggaac ttcattctcag ccaaaatgcc atcaacagga 1150
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cttactaaat aactgacaca ttgggaacaa cagagtcagc tacattgctg 1300
attgtgcctt ccgggggctt tccagtttaa agactttgga tctgaagaac 1350
aatgaaattt cctggactat tgaagacatg aatggtgctt tctctgggct 1400
tgacaaactg aggcgactga tactccaagg aaatcggatc cgttctatta 1450
ctaaaaaagc cttcactggt ttggatgcat tggagcatct agacctgagt 1500
gacaacgcaa tcatgtcttt acaaggcaat gcattttcac aaatgaagaa 1550
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taaaatggct cccacagtgg gtggcggaaa acaactttca gagctttgta 1650
aatgccagtt gtgcccattc tcagctgcta aaaggaagaa gcatttttgc 1700
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atctgctcag ctgccagcag cagtgattcc ccaatgactt ttgcttggaa 1850
aaaagacaat gaactactgc atgatgctga aatggaaaat tatgcacacc 1900
tccggggcca aggtggcgag gtgatggagt ataccacat ccttcggctg 1950
cgcgaggtgg aatttggcag tgaggggaaa tatcagtgtg tcatctcaa 2000
tcactttggt tcactctact ctgtcaaagc caagcttaca gtaaataatgc 2050
ttccctcatt caccaagacc cccatggatc tcaccatccg agctggggcc 2100
atggcacgct tggagtgtgc tgctgtgggg caccagccc cccagatagc 2150

P1618P2C3.txt

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 gaggacattg gggatatacag ctgcacagct cagaacagtg caggaagtat 2300
 ttcagcaaatt gcaactctga ctgtcctaga aacaccatca tttttgcggc 2350
 cactgttga ccgaactgta accaaggagg aaacagccgt cctacagtgc 2400
 attgctggag gaagccctcc ccctaaactg aactggacca aagatgatag 2450
 cccattggtg gtaaccgaga ggcacttttt tgcagcaggc aatcagcttc 2500
 tgattattgt ggactcagat gtcagtgatg ctgggaaata cacatgtgag 2550
 atgtctaaca cccttggcac tgagagagga aacgtgcgcc tcagtgtgat 2600
 cccactcca acctgcgact cccctcagat gacagcccca tcgttagacg 2650
 atgacggatg ggccactgtg ggtgtcgtga tcatagccgt ggtttgctgt 2700
 gtggtgggca cgtcactcgt gtgggtgggtc atcatatacc acacaaggcg 2750
 gaggaatgaa gattgcagca ttaccaacac agatgagacc aacttgccag 2800
 cagatattcc tagttatttg tcatctcagg gaacgttagc tgacaggcag 2850
 gatgggtacg tgtcttcaga aagtggaagc caccaccagt ttgtcacatc 2900
 ttcagggtgct ggatttttct taccacaaca tgacagtagt gggacctgcc 2950
 atattgacaa tagcagtga gctgatgtgg aagctgccac agatctgttc 3000
 ctttgtccgt ttttgggac cagaggccct atgtatttga agggaaatgt 3050
 gtatggctca gatccttttg aaacatatca tacaggttgc agtcctgacc 3100
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 gaggctacc catgtttctca tccttcagaa gaatcctgcg aacggagctt 3200
 cagtaatata tcgtggcctt cacatgtgag gaagctactt aacactagtt 3250
 actctcacia tgaaggacct ggaatgaaaa atctgtgtct aaacaagtcc 3300
 tcttttagatt ttagtgcaaa tccagagcca gcgtcggttg cctcgagtaa 3350
 ttctttcatg ggtacctttg gaaaagctct caggagacct cacctagatg 3400
 cctattcaag ctttggacag ccatcagatt gtcagccaag agccttttat 3450
 ttgaaagctc attcttcccc agacttggac tctgggtcag aggaagatgg 3500
 gaaagaaagg acagattttc aggaagaaaa tcacatttgt acctttaaac 3550
 agactttaga aaactacagg actccaaatt ttcagtctta tgacttggac 3600
 acatagactg aatgagacca aaggaaaagc ttaacatact acctcaagtg 3650
 aacttttatt taaaagagag agaattttat gttttttaaa tggagttatg 3700

P1618P2C3.txt

aattttaaaa ggataaaaat gctttattta tacagatgaa ccaaaattac 3750
 aaaaagttat gaaaattttt atactgggaa tgatgctcat ataagaatac 3800
 ctttttaaac tattttttta ctttgtttta tgcaaaaaag tatcttacgt 3850
 aaattaatga tataaatcat gattatttta tgtattttta taatgccaga 3900
 tttcttttta tggaaaatga gttactaaag catttttaaat aatacctgcc 3950
 ttgtaccatt ttttaaatag aagttacttc attatatattt gcacattata 4000
 ttttaataaaa tgtgtcaatt tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 4050
 aaa 4053

<210> 294
 <211> 1119
 <212> PRT
 <213> Homo Sapien

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 Leu Leu Cys Ala Val Leu Gly Arg Ala Gly Arg Ser Asp Ser Gly
 20 25 30
 Gly Arg Gly Glu Leu Gly Gln Pro Ser Gly Val Ala Ala Glu Arg
 35 40 45
 Pro Cys Pro Thr Thr Cys Arg Cys Leu Gly Asp Leu Leu Asp Cys
 50 55 60
 Ser Arg Lys Arg Leu Ala Arg Leu Pro Glu Pro Leu Pro Ser Trp
 65 70 75
 Val Ala Arg Leu Asp Leu Ser His Asn Arg Leu Ser Phe Ile Lys
 80 85 90
 Ala Ser Ser Met Ser His Leu Gln Ser Leu Arg Glu Val Lys Leu
 95 100 105
 Asn Asn Asn Glu Leu Glu Thr Ile Pro Asn Leu Gly Pro Val Ser
 110 115 120
 Ala Asn Ile Thr Leu Leu Ser Leu Ala Gly Asn Arg Ile Val Glu
 125 130 135
 Ile Leu Pro Glu His Leu Lys Glu Phe Gln Ser Leu Glu Thr Leu
 140 145 150
 Asp Leu Ser Ser Asn Asn Ile Ser Glu Leu Gln Thr Ala Phe Pro
 155 160 165
 Ala Leu Gln Leu Lys Tyr Leu Tyr Leu Asn Ser Asn Arg Val Thr
 170 175 180
 Ser Met Glu Pro Gly Tyr Phe Asp Asn Leu Ala Asn Thr Leu Leu
 185 190 195
 Val Leu Lys Leu Asn Arg Asn Arg Ile Ser Ala Ile Pro Pro Lys
 200 205 210

P1618P2C3.txt

Met	Phe	Lys	Leu	Pro	Gln	Leu	Gln	His	Leu	Glu	Leu	Asn	Arg	Asn	215	220	225
Lys	Ile	Lys	Asn	Val	Asp	Gly	Leu	Thr	Phe	Gln	Gly	Leu	Gly	Ala	230	235	240
Leu	Lys	Ser	Leu	Lys	Met	Gln	Arg	Asn	Gly	Val	Thr	Lys	Leu	Met	245	250	255
Asp	Gly	Ala	Phe	Trp	Gly	Leu	Ser	Asn	Met	Glu	Ile	Leu	Gln	Leu	260	265	270
Asp	His	Asn	Asn	Leu	Thr	Glu	Ile	Thr	Lys	Gly	Trp	Leu	Tyr	Gly	275	280	285
Leu	Leu	Met	Leu	Gln	Glu	Leu	His	Leu	Ser	Gln	Asn	Ala	Ile	Asn	290	295	300
Arg	Ile	Ser	Pro	Asp	Ala	Trp	Glu	Phe	Cys	Gln	Lys	Leu	Ser	Glu	305	310	315
Leu	Asp	Leu	Thr	Phe	Asn	His	Leu	Ser	Arg	Leu	Asp	Asp	Ser	Ser	320	325	330
Phe	Leu	Gly	Leu	Ser	Leu	Leu	Asn	Thr	Leu	His	Ile	Gly	Asn	Asn	335	340	345
Arg	Val	Ser	Tyr	Ile	Ala	Asp	Cys	Ala	Phe	Arg	Gly	Leu	Ser	Ser	350	355	360
Leu	Lys	Thr	Leu	Asp	Leu	Lys	Asn	Asn	Glu	Ile	Ser	Trp	Thr	Ile	365	370	375
Glu	Asp	Met	Asn	Gly	Ala	Phe	Ser	Gly	Leu	Asp	Lys	Leu	Arg	Arg	380	385	390
Leu	Ile	Leu	Gln	Gly	Asn	Arg	Ile	Arg	Ser	Ile	Thr	Lys	Lys	Ala	395	400	405
Phe	Thr	Gly	Leu	Asp	Ala	Leu	Glu	His	Leu	Asp	Leu	Ser	Asp	Asn	410	415	420
Ala	Ile	Met	Ser	Leu	Gln	Gly	Asn	Ala	Phe	Ser	Gln	Met	Lys	Lys	425	430	435
Leu	Gln	Gln	Leu	His	Leu	Asn	Thr	Ser	Ser	Leu	Leu	Cys	Asp	Cys	440	445	450
Gln	Leu	Lys	Trp	Leu	Pro	Gln	Trp	Val	Ala	Glu	Asn	Asn	Phe	Gln	455	460	465
Ser	Phe	Val	Asn	Ala	Ser	Cys	Ala	His	Pro	Gln	Leu	Leu	Lys	Gly	470	475	480
Arg	Ser	Ile	Phe	Ala	Val	Ser	Pro	Asp	Gly	Phe	Val	Cys	Asp	Asp	485	490	495
Phe	Pro	Lys	Pro	Gln	Ile	Thr	Val	Gln	Pro	Glu	Thr	Gln	Ser	Ala	500	505	510
Ile	Lys	Gly	Ser	Asn	Leu	Ser	Phe	Ile	Cys	Ser	Ala	Ala	Ser	Ser	515	520	525

P1618P2C3.txt

Ser	Asp	Ser	Pro	Met	Thr	Phe	Ala	Trp	Lys	Lys	Asp	Asn	Glu	Leu
				530					535					540
Leu	His	Asp	Ala	Glu	Met	Glu	Asn	Tyr	Ala	His	Leu	Arg	Ala	Gln
				545					550					555
Gly	Gly	Glu	Val	Met	Glu	Tyr	Thr	Thr	Ile	Leu	Arg	Leu	Arg	Glu
				560					565					570
Val	Glu	Phe	Ala	Ser	Glu	Gly	Lys	Tyr	Gln	Cys	Val	Ile	Ser	Asn
				575					580					585
His	Phe	Gly	Ser	Ser	Tyr	Ser	Val	Lys	Ala	Lys	Leu	Thr	Val	Asn
				590					595					600
Met	Leu	Pro	Ser	Phe	Thr	Lys	Thr	Pro	Met	Asp	Leu	Thr	Ile	Arg
				605					610					615
Ala	Gly	Ala	Met	Ala	Arg	Leu	Glu	Cys	Ala	Ala	Val	Gly	His	Pro
				620					625					630
Ala	Pro	Gln	Ile	Ala	Trp	Gln	Lys	Asp	Gly	Gly	Thr	Asp	Phe	Pro
				635					640					645
Ala	Ala	Arg	Glu	Arg	Arg	Met	His	Val	Met	Pro	Glu	Asp	Asp	Val
				650					655					660
Phe	Phe	Ile	Val	Asp	Val	Lys	Ile	Glu	Asp	Ile	Gly	Val	Tyr	Ser
				665					670					675
Cys	Thr	Ala	Gln	Asn	Ser	Ala	Gly	Ser	Ile	Ser	Ala	Asn	Ala	Thr
				680					685					690
Leu	Thr	Val	Leu	Glu	Thr	Pro	Ser	Phe	Leu	Arg	Pro	Leu	Leu	Asp
				695					700					705
Arg	Thr	Val	Thr	Lys	Gly	Glu	Thr	Ala	Val	Leu	Gln	Cys	Ile	Ala
				710					715					720
Gly	Gly	Ser	Pro	Pro	Pro	Lys	Leu	Asn	Trp	Thr	Lys	Asp	Asp	Ser
				725					730					735
Pro	Leu	Val	Val	Thr	Glu	Arg	His	Phe	Phe	Ala	Ala	Gly	Asn	Gln
				740					745					750
Leu	Leu	Ile	Ile	Val	Asp	Ser	Asp	Val	Ser	Asp	Ala	Gly	Lys	Tyr
				755					760					765
Thr	Cys	Glu	Met	Ser	Asn	Thr	Leu	Gly	Thr	Glu	Arg	Gly	Asn	Val
				770					775					780
Arg	Leu	Ser	Val	Ile	Pro	Thr	Pro	Thr	Cys	Asp	Ser	Pro	Gln	Met
				785					790					795
Thr	Ala	Pro	Ser	Leu	Asp	Asp	Asp	Gly	Trp	Ala	Thr	Val	Gly	Val
				800					805					810
Val	Ile	Ile	Ala	Val	Val	Cys	Cys	Val	Val	Gly	Thr	Ser	Leu	Val
				815					820					825
Trp	Val	Val	Ile	Ile	Tyr	His	Thr	Arg	Arg	Arg	Asn	Glu	Asp	Cys
				830					835					840

P1618P2C3.txt

Ser Ile Thr Asn Thr Asp Glu Thr Asn Leu Pro Ala Asp Ile Pro
845 850 855

Ser Tyr Leu Ser Ser Gln Gly Thr Leu Ala Asp Arg Gln Asp Gly
860 870

Tyr Val Ser Ser Glu Ser Gly Ser His His Gln Phe Val Thr Ser
875 880 885

Ser Gly Ala Gly Phe Phe Leu Pro Gln His Asp Ser Ser Gly Thr
890 895 900

Cys His Ile Asp Asn Ser Ser Glu Ala Asp Val Glu Ala Ala Thr
905 910 915

Asp Leu Phe Leu Cys Pro Phe Leu Gly Ser Thr Gly Pro Met Tyr
920 925 930

Leu Lys Gly Asn Val Tyr Gly Ser Asp Pro Phe Glu Thr Tyr His
935 940 945

Thr Gly Cys Ser Pro Asp Pro Arg Thr Val Leu Met Asp His Tyr
950 955 960

Glu Pro Ser Tyr Ile Lys Lys Lys Glu Cys Tyr Pro Cys Ser His
965 970 975

Pro Ser Glu Glu Ser Cys Glu Arg Ser Phe Ser Asn Ile Ser Trp
980 985 990

Pro Ser His Val Arg Lys Leu Leu Asn Thr Ser Tyr Ser His Asn
995 1000 1005

Glu Gly Pro Gly Met Lys Asn Leu Cys Leu Asn Lys Ser Ser Leu
1010 1015 1020

Asp Phe Ser Ala Asn Pro Glu Pro Ala Ser Val Ala Ser Ser Asn
1025 1030 1035

Ser Phe Met Gly Thr Phe Gly Lys Ala Leu Arg Arg Pro His Leu
1040 1045 1050

Asp Ala Tyr Ser Ser Phe Gly Gln Pro Ser Asp Cys Gln Pro Arg
1055 1060 1065

Ala Phe Tyr Leu Lys Ala His Ser Ser Pro Asp Leu Asp Ser Gly
1070 1075 1080

Ser Glu Glu Asp Gly Lys Glu Arg Thr Asp Phe Gln Glu Glu Asn
1085 1090 1095

His Ile Cys Thr Phe Lys Gln Thr Leu Glu Asn Tyr Arg Thr Pro
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Asn Phe Gln Ser Tyr Asp Leu Asp Thr
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 295
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<210> 296
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 296
cctaaactga actggacca 19

<210> 297
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 297
ggctggagac actgaacct 19

<210> 298
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 298
acagctgcac agctcagaac agtg 24

<210> 299
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 299
cattcccagt ataaaaattt tc 22

<210> 300
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
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<400> 300
gggtcttggt gaatgagg 18

<210> 301
<211> 24

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<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 301
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<210> 302
<211> 50
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

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<210> 303
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 303
gcctttgaca accttcagtc actagtgg 28

<210> 304
<211> 24
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 304
cccatgtgt ccatgactgt tccc 24

<210> 305
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
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<400> 305
tactgcctca tgacctcttc actcccttgc atcatccttag agcgg 45

<210> 306
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
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<400> 306
actccaagga aatcgatcc gttc 24

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P1618P2C3.txt

<210> 307
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide probe

<400> 307
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<210> 308
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 308
 actccaagga aatcggatcc gtgc 24

<210> 309
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 309
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<210> 310
 <211> 3296
 <212> DNA
 <213> Homo Sapien

<400> 310
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 gcgccgctcg gcgccggggc gcagcaggga aggggaagct gtggtctgcc 150
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P1618P2C3.txt

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<223> Synthetic Oligonucleotide Probe

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<212> DNA

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<223> Synthetic Oligonucleotide Probe

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<212> DNA

<213> Homo Sapien

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P1618P2C3.txt

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P1618P2C3.txt

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 <212> PRT
 <213> Homo Sapien

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 35 40 45
 Trp Gly Trp Ala Arg Gln Ser Trp Gly Gln Cys Gln Pro Val Cys
 50 55 60
 Gln Pro Arg Cys Lys His Gly Glu Cys Ile Gly Pro Asn Lys Cys
 65 70 75
 Lys Cys His Pro Gly Tyr Ala Gly Lys Thr Cys Asn Gln Asp Leu
 80 85 90
 Asn Glu Cys Gly Leu Lys Pro Arg Pro Cys Lys His Arg Cys Met
 95 100 105
 Asn Thr Tyr Gly Ser Tyr Lys Cys Tyr Cys Leu Asn Gly Tyr Met
 110 115 120
 Leu Met Pro Asp Gly Ser Cys Ser Ser Ala Leu Thr Cys Ser Met
 125 130 135
 Ala Asn Cys Gln Tyr Gly Cys Asp Val Val Lys Gly Gln Ile Arg
 140 145 150
 Cys Gln Cys Pro Ser Pro Gly Leu His Leu Ala Pro Asp Gly Arg
 155 160 165
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 170 175 180
 Pro Arg Phe Arg Gln Cys Val Asn Thr Phe Gly Ser Tyr Ile Cys
 185 190 195

P1618P2C3.txt

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				215					220					225
Ser	Ser	Phe	Ala	Arg	Cys	Tyr	Asn	Val	Arg	Gly	Ser	Tyr	Lys	Cys
				230					235					240
Lys	Cys	Lys	Glu	Gly	Tyr	Gln	Gly	Asp	Gly	Leu	Thr	Cys	Val	Tyr
				245					250					255
Ile	Pro	Lys	Val	Met	Ile	Glu	Pro	Ser	Gly	Pro	Ile	His	Val	Pro
				260					265					270
Lys	Gly	Asn	Gly	Thr	Ile	Leu	Lys	Gly	Asp	Thr	Gly	Asn	Asn	Asn
				275					280					285
Trp	Ile	Pro	Asp	Val	Gly	Ser	Thr	Trp	Trp	Pro	Pro	Lys	Thr	Pro
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Tyr	Ile	Pro	Pro	Ile	Ile	Thr	Asn	Arg	Pro	Thr	Ser	Lys	Pro	Thr
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Thr	Arg	Pro	Thr	Pro	Lys	Pro	Thr	Pro	Ile	Pro	Thr	Pro	Pro	Pro
				320					325					330
Pro	Pro	Pro	Leu	Pro	Thr	Glu	Leu	Arg	Thr	Pro	Leu	Pro	Pro	Thr
				335					340					345
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Ala	Ser	Thr	Pro	Pro	Gly	Gly	Ile	Thr	Val	Asp	Asn	Arg	Val	Gln
				365					370					375
Thr	Asp	Pro	Gln	Lys	Pro	Arg	Gly	Asp	Val	Phe	Ser	Val	Leu	Val
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His	Ser	Cys	Asn	Phe	Asp	His	Gly	Leu	Cys	Gly	Trp	Ile	Arg	Glu
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Lys	Asp	Asn	Asp	Leu	His	Trp	Glu	Pro	Ile	Arg	Asp	Pro	Ala	Gly
				410					415					420
Gly	Gln	Tyr	Leu	Thr	Val	Ser	Ala	Ala	Lys	Ala	Pro	Gly	Gly	Lys
				425					430					435
Ala	Ala	Arg	Leu	Val	Leu	Pro	Leu	Gly	Arg	Leu	Met	His	Ser	Gly
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Asp	Leu	Cys	Leu	Ser	Phe	Arg	His	Lys	Val	Thr	Gly	Leu	His	Ser
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Gly	Thr	Leu	Gln	Val	Phe	Val	Arg	Lys	His	Gly	Ala	His	Gly	Ala
				470					475					480
Ala	Leu	Trp	Gly	Arg	Asn	Gly	Gly	His	Gly	Trp	Arg	Gln	Thr	Gln
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Ile	Thr	Leu	Arg	Gly	Ala	Asp	Ile	Lys	Ser	Glu	Ser	Gln	Arg	
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P1618P2C3.txt

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 <213> Homo Sapien

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 50          55          60
Pro His Thr Met Pro Lys Tyr Leu Leu Gly Ser Val Asn Lys Ser
 65          70          75
Val Val Pro Asp Leu Glu Tyr Gln His Lys Phe Thr Met Met Pro
 80          85          90
Pro Asn Ala Ser Leu Leu Ile Asn Pro Leu Gln Phe Pro Asp Glu
 95          100          105
Gly Asn Tyr Ile Val Lys Val Asn Ile Gln Gly Asn Gly Thr Leu
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Ser Ala Ser Gln Lys Ile Gln Val Thr Val Asp Asp Pro Val Thr
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Lys Pro Val Val Gln Ile His Pro Pro Ser Gly Ala Val Glu Tyr
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Val Gly Asn Met Thr Leu Thr Cys His Val Glu Gly Gly Thr Arg
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 170          175          180
Ser Thr Tyr Ser Phe Ser Pro Gln Asn Asn Thr Leu His Ile Ala
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Pro Val Thr Lys Glu Asp Ile Gly Asn Tyr Ser Cys Leu Val Arg
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Asn Pro Val Ser Glu Met Glu Ser Asp Ile Ile Met Pro Ile Ile
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Phe Asp Cys Ser Ala Asp Ser His Pro Pro Asn Thr Tyr Ser Trp
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P1618P2C3.txt

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Pro Asp Val Ser Gly Val Ser Arg Ile Pro Ser Arg Ser Val Pro	410 415	420
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<223> Synthetic Oligonucleotide Probe

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<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 322

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<210> 323

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

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<213> Homo Sapien

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P1618P2C3.txt

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 tatttttttg ttgtttcaaa ctgaagttta ctgagagatc catcaaattg 1650
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<210> 325

<211> 280

<212> PRT

<213> Homo Sapien

<400> 325

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Val	Arg	Val	Ile	Thr	Asp	Glu	Asn	Trp	Arg	Glu	Leu	Leu	Glu	Gly
				35					40				45	
Asp	Trp	Met	Ile	Glu	Phe	Tyr	Ala	Pro	Trp	Cys	Pro	Ala	Cys	Gln
				50					55				60	
Asn	Leu	Gln	Pro	Glu	Trp	Glu	Ser	Phe	Ala	Glu	Trp	Gly	Glu	Asp
				65					70				75	
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P1618P2C3.txt

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95	100	105
Cys Lys Asp Gly Glu Phe Arg Arg Tyr	Gln Gly Pro Arg Thr Lys	
110	115	120
Lys Asp Phe Ile Asn Phe Ile Ser Asp	Lys Glu Trp Lys Ser Ile	
125	130	135
Glu Pro Val Ser Ser Trp Phe Gly Pro	Gly Ser Val Leu Met Ser	
140	145	150
Ser Met Ser Ala Leu Phe Gln Leu Ser	Met Trp Ile Arg Thr Cys	
155	160	165
His Asn Tyr Phe Ile Glu Asp Leu Gly	Leu Pro Val Trp Gly Ser	
170	175	180
Tyr Thr Val Phe Ala Leu Ala Thr Leu	Phe Ser Gly Leu Leu Leu	
185	190	195
Gly Leu Cys Met Ile Phe Val Ala Asp	Cys Leu Cys Pro Ser Lys	
200	205	210
Arg Arg Arg Pro Gln Pro Tyr Pro Tyr	Pro Ser Lys Lys Leu Leu	
215	220	225
Ser Glu Ser Ala Gln Pro Leu Lys Lys	Val Glu Glu Glu Gln Glu	
230	235	240
Ala Asp Glu Glu Asp Val Ser Glu Glu	Glu Ala Glu Ser Lys Glu	
245	250	255
Gly Thr Asn Lys Asp Phe Pro Gln Asn	Ala Ile Arg Gln Arg Ser	
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Leu Gly Pro Ser Leu Ala Thr Asp Lys	Ser	
275	280	

<210> 326

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 326

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<210> 327

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 327

tatgtggatc aggacgtgcc 20

P1618P2C3.txt

<210> 328
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 328
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<210> 329
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 329
 ttgaaggaca aaggcaatct gccac 25

<210> 330
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 330
 ggagtcttgc agttcccctg gcagtcctgg tgctgttgct ttggg 45

<210> 331
 <211> 2168
 <212> DNA
 <213> Homo Sapien

<400> 331
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 acttccctct gtgacctga aactctgggt gtctgcattg ctgatggcct 200
 ggtttggtgt cctgagctgt gtgcaggccg aattcttcac ctctattggg 250
 cacatgactg acctgattta tgcagagaaa gagctgggtgc agtctctgaa 300
 agagtacatc cttgtggagg aagccaagct ttccaagatt aagagctggg 350
 ccaacaaaat ggaagccttg actagcaagt cagctgctga tgctgagggc 400
 tacctggctc accctgtgaa tgcctacaaa ctggtgaagc ggctaaacac 450
 agactggcct gcgctggagg acctgtcct gcaggactca gctgcaggtt 500
 ttatcgccaa cctctctgtg cagcggcagt tcttccccac tgatgaggac 550
 gagataggag ctgccaagc cctgatgaga cttcaggaca catacaggct 600

P1618P2C3.txt

ggacccaggc acaatttcca gaggggaact tccaggaacc aagtaccagg 650
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 gaaggggact attatcatac ggtgttgtgg atggagcagg tgctaaagca 750
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 acctcagcta tgctgtcttc cagttgggtg atctgcaccg tgccctggag 850
 ctacccgcc gcctgtcttc ccttgacca agccacgaac gagctggagg 900
 gaatctgcgg tactttgagc agttattgga ggaagagaga gaaaaaacgt 950
 taacaaatca gacagaagct gagctagcaa cccagaagg catctatgag 1000
 aggcctgtgg actacctgcc tgagagggat gtttacgaga gcctctgtcg 1050
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 ggtaccacca tggcaacagg gccccacagc tgctcattgc ccccttcaa 1150
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 ctgcagaatt gttacagggt gcaaattatg gagtgggagg acagtatgaa 1450
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P1618P2C3.txt

<210> 332
 <211> 533
 <212> PRT
 <213> Homo Sapien

<400> 332
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 20 25 30
 Thr Asp Leu Ile Tyr Ala Glu Lys Glu Leu Val Gln Ser Leu Lys
 35 40 45
 Glu Tyr Ile Leu Val Glu Glu Ala Lys Leu Ser Lys Ile Lys Ser
 50 55 60
 Trp Ala Asn Lys Met Glu Ala Leu Thr Ser Lys Ser Ala Ala Asp
 65 70 75
 Ala Glu Gly Tyr Leu Ala His Pro Val Asn Ala Tyr Lys Leu Val
 80 85 90
 Lys Arg Leu Asn Thr Asp Trp Pro Ala Leu Glu Asp Leu Val Leu
 95 100 105
 Gln Asp Ser Ala Ala Gly Phe Ile Ala Asn Leu Ser Val Gln Arg
 110 115 120
 Gln Phe Phe Pro Thr Asp Glu Asp Glu Ile Gly Ala Ala Lys Ala
 125 130 135
 Leu Met Arg Leu Gln Asp Thr Tyr Arg Leu Asp Pro Gly Thr Ile
 140 145 150
 Ser Arg Gly Glu Leu Pro Gly Thr Lys Tyr Gln Ala Met Leu Ser
 155 160 165
 Val Asp Asp Cys Phe Gly Met Gly Arg Ser Ala Tyr Asn Glu Gly
 170 175 180
 Asp Tyr Tyr His Thr Val Leu Trp Met Glu Gln Val Leu Lys Gln
 185 190 195
 Leu Asp Ala Gly Glu Glu Ala Thr Thr Thr Lys Ser Gln Val Leu
 200 205 210
 Asp Tyr Leu Ser Tyr Ala Val Phe Gln Leu Gly Asp Leu His Arg
 215 220 225
 Ala Leu Glu Leu Thr Arg Arg Leu Leu Ser Leu Asp Pro Ser His
 230 235 240
 Glu Arg Ala Gly Gly Asn Leu Arg Tyr Phe Glu Gln Leu Leu Glu
 245 250 255
 Glu Glu Arg Glu Lys Thr Leu Thr Asn Gln Thr Glu Ala Glu Leu
 260 265 270
 Ala Thr Pro Glu Gly Ile Tyr Glu Arg Pro Val Asp Tyr Leu Pro
 275 280 285

P1618P2C3.txt

Glu Arg Asp Val	Tyr 290	Glu Ser Leu Cys	Arg 295	Gly Glu Gly Val	Lys 300
Leu Thr Pro Arg	Arg 305	Gln Lys Arg Leu	Phe 310	Cys Arg Tyr His	His 315
Gly Asn Arg Ala	Pro 320	Gln Leu Leu Ile	Ala 325	Pro Phe Lys Glu	Glu 330
Asp Glu Trp Asp	Ser 335	Pro His Ile Val	Arg 340	Tyr Tyr Asp Val	Met 345
Ser Asp Glu Glu	Ile 350	Glu Arg Ile Lys	Glu 355	Ile Ala Lys Pro	Lys 360
Leu Ala Arg Ala	Thr 365	Val Arg Asp Pro	Lys 370	Thr Gly Val Leu	Thr 375
Val Ala Ser Tyr	Arg 380	Val Ser Lys Ser	Ser 385	Trp Leu Glu Glu	Asp 390
Asp Asp Pro Val	Val 395	Ala Arg Val Asn	Arg 400	Arg Met Gln His	Ile 405
Thr Gly Leu Thr	Val 410	Lys Thr Ala Glu	Leu 415	Leu Gln Val Ala	Asn 420
Tyr Gly Val Gly	Gly 425	Gln Tyr Glu Pro	His 430	Phe Asp Phe Ser	Arg 435
Arg Pro Phe Asp	Ser 440	Gly Leu Lys Thr	Glu 445	Gly Asn Arg Leu	Ala 450
Thr Phe Leu Asn	Tyr 455	Met Ser Asp Val	Glu 460	Ala Gly Gly Ala	Thr 465
Val Phe Pro Asp	Leu 470	Gly Ala Ala Ile	Trp 475	Pro Lys Lys Gly	Thr 480
Ala Val Phe Trp	Tyr 485	Asn Leu Leu Arg	Ser 490	Gly Glu Gly Asp	Tyr 495
Arg Thr Arg His	Ala 500	Ala Cys Pro Val	Leu 505	Val Gly Cys Lys	Trp 510
Val Ser Asn Lys	Trp 515	Phe His Glu Arg	Gly 520	Gln Glu Phe Leu	Arg 525
Pro Cys Gly Ser	Thr 530	Glu Val Asp			

<210> 333

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 333

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<210> 334
 <211> 19
 <212> DNA
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<220>
 <223> Synthetic Oligonucleotide Probe

<400> 334
 ggacccttct gtgtgccag 19

<210> 335
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 335
 ggtctcaaga actcctgtc 19

<210> 336
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 336
 acactcagca ttgcctggta cttg 24

<210> 337
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 337
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<210> 338
 <211> 2789
 <212> DNA
 <213> Homo Sapien

<400> 338
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P1618P2C3.txt

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 ctcgaggcgt ttgcagccaa tgcctggag ccacgagaac atgcattgct 1900

P1618P2C3.txt

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 acccatttct tggggtgaag gctgcagcag cggagttaga gcgacggtac 2000
 cctgggacga ggctggcctg gctcgctgtg cgagcagagg ccccttccca 2050
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<210> 339
 <211> 772
 <212> PRT
 <213> Homo Sapien

<400> 339
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 35 40 45
 Val Gly Glu Arg Gly Gly Pro Gln Asn Pro Asp Ser Arg Ala Arg
 50 55 60
 Leu Asp Gln Ser Asp Glu Asp Phe Lys Pro Arg Ile Val Pro Tyr
 65 70 75
 Tyr Arg Asp Pro Asn Lys Pro Tyr Lys Lys Val Leu Arg Thr Arg
 80 85 90
 Tyr Ile Gln Thr Glu Leu Gly Ser Arg Glu Arg Leu Leu Val Ala
 95 100 105

P1618P2C3.txt

Val	Leu	Thr	Ser	Arg	Ala	Thr	Leu	Ser	Thr	Leu	Ala	Val	Ala	Val	120
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Gly	Gln	Arg	Gly	Ala	Arg	Ala	Pro	Ala	Gly	Met	Gln	Val	Val	Ser	150
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His	Gly	Asp	Glu	Arg	Pro	Ala	Trp	Leu	Met	Ser	Glu	Thr	Leu	Arg	165
				155					160						
His	Leu	His	Thr	His	Phe	Gly	Ala	Asp	Tyr	Asp	Trp	Phe	Phe	Ile	180
				170					175						
Met	Gln	Asp	Asp	Thr	Tyr	Val	Gln	Ala	Pro	Arg	Leu	Ala	Ala	Leu	195
				185					190						
Ala	Gly	His	Leu	Ser	Ile	Asn	Gln	Asp	Leu	Tyr	Leu	Gly	Arg	Ala	210
				200					205						
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				215					220						
Gly	Phe	Gly	Tyr	Leu	Leu	Ser	Arg	Ser	Leu	Leu	Leu	Arg	Leu	Arg	240
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Pro	His	Leu	Asp	Gly	Cys	Arg	Gly	Asp	Ile	Leu	Ser	Ala	Arg	Pro	255
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Cys	Val	Ser	Gln	His	Gln	Gly	Gln	Gln	Tyr	Arg	Ser	Phe	Glu	Leu	285
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				290					295						
Ser	Ala	Phe	Ala	Val	His	Pro	Val	Ser	Glu	Gly	Thr	Leu	Met	Tyr	315
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				320					325						
Ser	Glu	Ile	Glu	Gln	Leu	Gln	Ala	Gln	Ile	Arg	Asn	Leu	Thr	Val	345
				335					340						
Leu	Thr	Pro	Glu	Gly	Glu	Ala	Gly	Leu	Ser	Trp	Pro	Val	Gly	Leu	360
				350					355						
Pro	Ala	Pro	Phe	Thr	Pro	His	Ser	Arg	Phe	Glu	Val	Leu	Gly	Trp	375
				365					370						
Asp	Tyr	Phe	Thr	Glu	Gln	His	Thr	Phe	Ser	Cys	Ala	Asp	Gly	Ala	390
				380					385						
Pro	Lys	Cys	Pro	Leu	Gln	Gly	Ala	Ser	Arg	Ala	Asp	Val	Gly	Asp	405
				395					400						
Ala	Leu	Glu	Thr	Ala	Leu	Glu	Gln	Leu	Asn	Arg	Arg	Tyr	Gln	Pro	420
				410					415						

P1618P2C3.txt

Arg	Leu	Arg	Phe	Gln	Lys	Gln	Arg	Leu	Leu	Asn	Gly	Tyr	Arg	Arg
				425					430					435
Phe	Asp	Pro	Ala	Arg	Gly	Met	Glu	Tyr	Thr	Leu	Asp	Leu	Leu	Leu
				440					445					450
Glu	Cys	Val	Thr	Gln	Arg	Gly	His	Arg	Arg	Ala	Leu	Ala	Arg	Arg
				455					460					465
Val	Ser	Leu	Leu	Arg	Pro	Leu	Ser	Arg	Val	Glu	Ile	Leu	Pro	Met
				470					475					480
Pro	Tyr	Val	Thr	Glu	Ala	Thr	Arg	Val	Gln	Leu	Val	Leu	Pro	Leu
				485					490					495
Leu	Val	Ala	Glu	Ala	Ala	Ala	Ala	Pro	Ala	Phe	Leu	Glu	Ala	Phe
				500					505					510
Ala	Ala	Asn	Val	Leu	Glu	Pro	Arg	Glu	His	Ala	Leu	Leu	Thr	Leu
				515					520					525
Leu	Leu	Val	Tyr	Gly	Pro	Arg	Glu	Gly	Gly	Arg	Gly	Ala	Pro	Asp
				530					535					540
Pro	Phe	Leu	Gly	Val	Lys	Ala	Ala	Ala	Ala	Glu	Leu	Glu	Arg	Arg
				545					550					555
Tyr	Pro	Gly	Thr	Arg	Leu	Ala	Trp	Leu	Ala	Val	Arg	Ala	Glu	Ala
				560					565					570
Pro	Ser	Gln	Val	Arg	Leu	Met	Asp	Val	Val	Ser	Lys	Lys	His	Pro
				575					580					585
Val	Asp	Thr	Leu	Phe	Phe	Leu	Thr	Thr	Val	Trp	Thr	Arg	Pro	Gly
				590					595					600
Pro	Glu	Val	Leu	Asn	Arg	Cys	Arg	Met	Asn	Ala	Ile	Ser	Gly	Trp
				605					610					615
Gln	Ala	Phe	Phe	Pro	Val	His	Phe	Gln	Glu	Phe	Asn	Pro	Ala	Leu
				620					625					630
Ser	Pro	Gln	Arg	Ser	Pro	Pro	Gly	Pro	Pro	Gly	Ala	Gly	Pro	Asp
				635					640					645
Pro	Pro	Ser	Pro	Pro	Gly	Ala	Asp	Pro	Ser	Arg	Gly	Ala	Pro	Ile
				650					655					660
Gly	Gly	Arg	Phe	Asp	Arg	Gln	Ala	Ser	Ala	Glu	Gly	Cys	Phe	Tyr
				665					670					675
Asn	Ala	Asp	Tyr	Leu	Ala	Ala	Arg	Ala	Arg	Leu	Ala	Gly	Glu	Leu
				680					685					690
Ala	Gly	Gln	Glu	Glu	Glu	Glu	Ala	Leu	Glu	Gly	Leu	Glu	Val	Met
				695					700					705
Asp	Val	Phe	Leu	Arg	Phe	Ser	Gly	Leu	His	Leu	Phe	Arg	Ala	Val
				710					715					720
Glu	Pro	Gly	Leu	Val	Gln	Lys	Phe	Ser	Leu	Arg	Asp	Cys	Ser	Pro
				725					730					735

P1618P2C3.txt

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu
740 745 750

Glu Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu
755 760 765

Gln Glu Gln Ala Asn Ser Thr
770

<210> 340
<211> 1572
<212> DNA
<213> Homo Sapien

<400> 340
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tgtccccaag ccgttctaga cgcgggaaaa atgctttctg aaagcagctc 100
ctttttgaag ggtgtgatgc ttggaagcat tttctgtgct ttgatcacta 150
tgctaggaca cattaggatt ggtcatggaa atagaatgca ccaccatgag 200
catcatcacc tacaagctcc taacaaagaa gatatcttga aaatttcaga 250
ggatgagcgc atggagctca gtaagagctt tcgagtatac tgtattatcc 300
ttgtaaaacc caaagatgtg agtctttggg ctgcagtaaa ggagacttgg 350
accaaact gtgacaaagc agagtcttc agttctgaaa atgttaaagt 400
gtttgagtca attaatatgg acacaaatga catgtggtta atgatgagaa 450
aagcttaca atacgccttt gataagtata gagaccaata caactgggtc 500
ttccttgac gcccactac gtttgctatc attgaaaacc taaagtattt 550
tttgtaaaa aaggatccat cacagccttt ctatctaggc cacactataa 600
aatctggaga ccttgaatat gtgggtatgg aaggaggaat tgtcttaagt 650
gtagaatcaa tgaaaagact taacagcctt ctcaatatcc cagaaaagtg 700
tcctgaacag ggagggatga tttggaagat atctgaagat aaacagctag 750
cagtttgct gaaatatgct ggagtatttg cagaaaatgc agaagatgct 800
gatggaaaag atgtatttaa taccaaatct gttgggcttt ctattaaaga 850
ggcaatgact tatcaccca accaggtagt agaaggctgt tgttcagata 900
tggctgttac ttttaatgga ctgactcaa atcagatgca tgtgatgatg 950
tatgggtat accgccttag ggcatttggg catattttca atgatgcatt 1000
ggttttctta cctccaaatg gttctgacaa tgactgagaa gtggtagaaa 1050
agcgtgaata tgatctttgt ataggacgtg tgttgcatt atttgtagta 1100
gtaactacat atccaatata gctgtatgtt tctttttctt ttctaatttg 1150
gtggcactgg tataaccaca cattaaagtc agtagtacat ttttaaatga 1200

P1618P2C3.txt

gggtggtttt tttctttaaa acacatgaac attgtaaatg tgttgaaaag 1250
aagtgtttta agaataataa ttttgcaaat aaactattaa taaatattat 1300
atgtgataaa ttctaaatta tgaacattag aaatctgtgg ggcacatatt 1350
tttgctgatt ggtaaaaaa ttttaacagg tcttttagcgt tctaagatat 1400
gcaaagata tctctagttg tgaatttgtg attaaagtaa aacttttagc 1450
tgtgtgttcc ctttacttct aatactgatt tatgttctaa gcctccccaa 1500
gttccaatgg atttgccttc tcaaatgta caactaagca actaaagaaa 1550
attaaagtga aagttgaaaa at 1572

<210> 341
<211> 318
<212> PRT
<213> Homo Sapien

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Ser Ile Phe Cys Ala Leu Ile Thr Met Leu Gly His Ile Arg Ile
20 25 30
Gly His Gly Asn Arg Met His His His Glu His His His Leu Gln
35 40 45
Ala Pro Asn Lys Glu Asp Ile Leu Lys Ile Ser Glu Asp Glu Arg
50 55 60
Met Glu Leu Ser Lys Ser Phe Arg Val Tyr Cys Ile Ile Leu Val
65 70 75
Lys Pro Lys Asp Val Ser Leu Trp Ala Ala Val Lys Glu Thr Trp
80 85 90
Thr Lys His Cys Asp Lys Ala Glu Phe Phe Ser Ser Glu Asn Val
95 100 105
Lys Val Phe Glu Ser Ile Asn Met Asp Thr Asn Asp Met Trp Leu
110 115 120
Met Met Arg Lys Ala Tyr Lys Tyr Ala Phe Asp Lys Tyr Arg Asp
125 130 135
Gln Tyr Asn Trp Phe Phe Leu Ala Arg Pro Thr Thr Phe Ala Ile
140 145 150
Ile Glu Asn Leu Lys Tyr Phe Leu Leu Lys Lys Asp Pro Ser Gln
155 160 165
Pro Phe Tyr Leu Gly His Thr Ile Lys Ser Gly Asp Leu Glu Tyr
170 175 180
Val Gly Met Glu Gly Gly Ile Val Leu Ser Val Glu Ser Met Lys
185 190 195
Arg Leu Asn Ser Leu Leu Asn Ile Pro Glu Lys Cys Pro Glu Gln
200 205 210

P1618P2C3.txt

Gly	Gly	Met	Ile	Trp	Lys	Ile	Ser	Glu	Asp	Lys	Gln	Leu	Ala	Val	215	220	225
Cys	Leu	Lys	Tyr	Ala	Gly	Val	Phe	Ala	Glu	Asn	Ala	Glu	Asp	Ala	230	235	240
Asp	Gly	Lys	Asp	Val	Phe	Asn	Thr	Lys	Ser	Val	Gly	Leu	Ser	Ile	245	250	255
Lys	Glu	Ala	Met	Thr	Tyr	His	Pro	Asn	Gln	Val	Val	Glu	Gly	Cys	260	265	270
Cys	Ser	Asp	Met	Ala	Val	Thr	Phe	Asn	Gly	Leu	Thr	Pro	Asn	Gln	275	280	285
Met	His	Val	Met	Met	Tyr	Gly	Val	Tyr	Arg	Leu	Arg	Ala	Phe	Gly	290	295	300
His	Ile	Phe	Asn	Asp	Ala	Leu	Val	Phe	Leu	Pro	Pro	Asn	Gly	Ser	305	310	315

Asp Asn Asp

<210> 342
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 342
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<210> 343
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 343
 ctggttcttc cttgcacg 18

<210> 344
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Oligonucleotide Probe

<400> 344
 gcccaaatgc cctaaggcgg tatacccc 28

<210> 345
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 345

gggtgtgatg cttggaagca ttttctgtgc ttgatcact atgctaggac 50

<210> 346

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 346

gggatgcagg tgggtgtctca tgggg 25

<210> 347

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 347

ccctcatgta ccggctcc 18

<210> 348

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 348

ggattctaatac gactcact atagggctca gaaaagcgca acagagaa 48

<210> 349

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 349

ctatgaaatt aaccctcact aaagggatgt cttccatgcc aaccttc 47

<210> 350

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 350

ggattctaatac gactcact atagggcggc gatgtccact ggggctac 48

<210> 351

<211> 48


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<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 351
ctatgaaatt aaccctcact aaagggacga ggaagatggg cggatggt 48

<210> 352
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 352
ggattctaatacgcactcact atagggcacc cacgcgtccg gctgctt 47

<210> 353
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 353
ctatgaaatt aaccctcact aaagggacgg gggacaccac ggaccaga 48

<210> 354
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 354
ggattctaatacgcactcact atagggccttg ctgcggtttt tgttcctg 48

<210> 355
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 355
ctatgaaatt aaccctcact aaagggagct gccgatccca ctggtatt 48

<210> 356
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 356
ggattctaatacgcactcact atagggcgga tcctggccgg cctctg 46

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P1618P2C3.txt

<210> 357
<211> 48
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<213> Artificial Sequence

<220>
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<400> 357
ctatgaaatt aaccctcact aaagggagcc cgggcatggt ctcagtta 48

<210> 358
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 358
ggattctaatt acgactcact atagggcggg aagatggcga ggaggag 47

<210> 359
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
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<400> 359
ctatgaaatt aaccctcact aaagggacca aggccacaaa cggaaatc 48

<210> 360
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 360
ggattctaatt acgactcact atagggctgt gctttcattc tgccagta 48

<210> 361
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 361
ctatgaaatt aaccctcact aaagggaggg tacaattaag gggtagat 48

<210> 362
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 362
ggattctaatac gactcact atagggcccg cctcgctcct gctcctg 47

<210> 363
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 363
ctatgaaatt aaccctcact aaaggaggga ttgccgcgac cctcacag 48

<210> 364
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 364
ggattctaatac gactcact atagggcccc tctgccttc cctgtcc 47

<210> 365
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 365
ctatgaaatt aaccctcact aaagggagtgtgtggccgcga ttatctgc 48

<210> 366
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 366
ggattctaatac gactcact atagggcgca gcgatggcag cgatgagg 48

<210> 367
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 367
ctatgaaatt aaccctcact aaagggacag acggggcaga gggagtgt 47

<210> 368
<211> 47
<212> DNA
<213> Artificial Sequence

P1618P2C3.txt

<220>

<223> Synthetic Oligonucleotide Probe

<400> 368

ggattctaatacgcactcactatagggccagaggcgtagagagaaac 47

<210> 369

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 369

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<210> 370

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 370

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<210> 371

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 371

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<210> 372

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 372

ggattctaatacgcactcactatagggccagggaatccggatgtctc 47

<210> 373

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 373

ctatgaaattaacccctcactaaagggagtaggggatgccaccgagta 48

<210> 374

P1618P2C3.txt

<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 374
ggattctaatacgaactcactatagggccagctacccgcaggaggagg 47

<210> 375
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 375
ctatgaaattaacccctcactaaagggatccaggtgatgagggtccaga 48

<210> 376
<211> 997
<212> DNA
<213> Homo Sapien

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cccacgcgtcgcgatcttacc aacaaaacac tcctgaggag aaagaaagag 50
aggaggaggag agaaaaagag agagagagaa acaaaaaacc aaagagagag 100
aaaaaatgaa ttcattctaaa tcatctgaaa cacaatgcac agagagagga 150
tgcttctctt cccaaatggt cttatggact gttgctggga tccccatcct 200
atttctcagt gcctgtttca tcaccagatg tgttgtgaca tttcgcatct 250
ttcaaacctg tgatgagaaa aagtttcagc tacctgagaa tttcacagag 300
ctctcctgct acaattatgg atcagggtta gtcaagaatt gttgtccatt 350
gaactgggaa tattttcaat ccagctgcta cttcttttct actgacacca 400
tttctggggc gttaagttta aagaactgct cagccatggg ggctcacctg 450
gtggttatca actcacagga ggagcaggaa ttcctttcct acaagaaacc 500
taaaatgaga gagtttttta ttggactgtc agaccagggt gtcgagggtc 550
agtggcaatg ggtggacggc acacctttga caaagtctct gagcttctgg 600
gatgtagggg agcccaacaa catagctacc ctggaggact gtgccaccat 650
gagagactct tcaaacccaa ggcaaaattg gaatgatgta acctgtttcc 700
tcaattattt tcggatttgt gaaatggtag gaataaatcc tttgaacaaa 750
ggaaaatctc tttaagaaca gaaggcacia ctcaaattgt taaagaagga 800
agagcaagaa catggccaca cccaccgccc cacacgagaa atttgtgcgc 850
tgaacttcaa aggacttcat aagtatttgt tactctgata caaataaaaa 900

P1618P2C3.txt

taagtagttt taaatgttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 950

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 997

<210> 377

<211> 219

<212> PRT

<213> Homo Sapien

<400> 377

Met Asn Ser Ser Lys Ser Ser Glu Thr Gln Cys Thr Glu Arg Gly
1 5 10 15

Cys Phe Ser Ser Gln Met Phe Leu Trp Thr Val Ala Gly Ile Pro
20 25 30

Ile Leu Phe Leu Ser Ala Cys Phe Ile Thr Arg Cys Val Val Thr
35 40 45

Phe Arg Ile Phe Gln Thr Cys Asp Glu Lys Lys Phe Gln Leu Pro
50 55 60

Glu Asn Phe Thr Glu Leu Ser Cys Tyr Asn Tyr Gly Ser Gly Ser
65 70 75

Val Lys Asn Cys Cys Pro Leu Asn Trp Glu Tyr Phe Gln Ser Ser
80 85 90

Cys Tyr Phe Phe Ser Thr Asp Thr Ile Ser Trp Ala Leu Ser Leu
95 100 105

Lys Asn Cys Ser Ala Met Gly Ala His Leu Val Val Ile Asn Ser
110 115 120

Gln Glu Glu Gln Glu Phe Leu Ser Tyr Lys Lys Pro Lys Met Arg
125 130 135

Glu Phe Phe Ile Gly Leu Ser Asp Gln Val Val Glu Gly Gln Trp
140 145 150

Gln Trp Val Asp Gly Thr Pro Leu Thr Lys Ser Leu Ser Phe Trp
155 160 165

Asp Val Gly Glu Pro Asn Asn Ile Ala Thr Leu Glu Asp Cys Ala
170 175 180

Thr Met Arg Asp Ser Ser Asn Pro Arg Gln Asn Trp Asn Asp Val
185 190 195

Thr Cys Phe Leu Asn Tyr Phe Arg Ile Cys Glu Met Val Gly Ile
200 205 210

Asn Pro Leu Asn Lys Gly Lys Ser Leu
215

<210> 378

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 378
ttcagcttct gggatgtagg g 21

<210> 379
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 379
tattcctacc atttcacaaa tccg 24

<210> 380
<211> 49
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

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ggaggactgt gccaccatga gagactcttc aaacccaagg caaaattgg 49

<210> 381
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 381
gcagattttg aggacagcca cctcca 26

<210> 382
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 382
ggccttgag acaaccgt 18

<210> 383
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 383
cagactgagg gagatccgag a 21

<210> 384
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 384
cagctgccct tccccaacca 20

<210> 385
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 385
catcaagcgc ctctacca 18

<210> 386
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 386
cacaaactcg aactgcttct g 21

<210> 387
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 387
gggcatcac agctccct 18

<210> 388
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 388
gggatgtggt gaacacagaa ca 22

<210> 389
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide probe

<400> 389
tgccagctgc atgctgccag tt 22

<210> 390
<211> 20


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<212> DNA
<213> Artificial Sequence

<220>
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<400> 390
cagaaggatg tcccgtggaa 20

<210> 391
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 391
gccgctgtcc actgcag 17

<210> 392
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 392
gacggcatcc tcagggccac a 21

<210> 393
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 393
atgtcctcca tgcccacgcg 20

<210> 394
<211> 20
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 394
gagtgcgaca tcgagagctt 20

<210> 395
<211> 18
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<213> Artificial Sequence

<220>
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<400> 395
ccgcagcctc agtgatga 18

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<210> 396
<211> 21
<212> DNA
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<220>
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<400> 396
gaagagcaca gctgcagatc c 21

<210> 397
<211> 22
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 397
gaggtgtcct ggctttggta gt 22

<210> 398
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 398
cctctggcgc cccactcaa 20

<210> 399
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<220>
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<400> 399
ccaggagagc tggcgatg 18

<210> 400
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<212> DNA
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<220>
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<400> 400
gcaaattcag ggctcactag aga 23

<210> 401
<211> 29
<212> DNA
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<220>
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<400> 401
cacagagcat ttgtccatca gcagttcag 29

<210> 402
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<220>
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<400> 402
ggcagagact tccagtcact ga 22

<210> 403
<211> 22
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<220>
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<400> 403
gccaaaggtg gtgtagata gg 22

<210> 404
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<212> DNA
<213> Artificial Sequence

<220>
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<400> 404
caggccccct tgatctgtac ccca 24

<210> 405
<211> 23
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 405
gggacgtgct tctacaagaa cag 23

<210> 406
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

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<400> 421
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<210> 422
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 ccagtaggca agatggcaac actgcactgc caggagagtg agggccaccc 550

P1618P2C3.txt

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gcctcttctt gagatgacta ggacagtctg tacccagagg ccaccagaa 2150

P1618P2C3.txt

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 <211> 310
 <212> PRT
 <213> Homo Sapien

P1618P2C3.txt

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35 40 45
Phe Glu Ser Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr
50 55 60
Ser Asp Pro Arg Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr
65 70 75
Thr Tyr Val Phe Phe Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly
80 85 90
Arg Ala Glu Ile Leu Gly Lys Thr Ser Leu Lys Ile Trp Asn Val
95 100 105
Thr Arg Arg Asp Ser Ala Leu Tyr Arg Cys Glu Val Val Ala Arg
110 115 120
Asn Asp Arg Lys Glu Ile Asp Glu Ile Val Ile Glu Leu Thr Val
125 130 135
Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro Lys Ala Val
140 145 150
Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser Glu Gly
155 160 165
His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro Leu
170 175 180
Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn Ser Ser Phe
185 190 195
His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala Val His
200 205 210
Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp Ala
215 220 225
Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
230 235 240
Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val
245 250 255
Leu Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly
260 265 270
Tyr Phe Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro
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290 295 300
Asp Phe Arg His Lys Ser Ser Phe Val Ile

305

P1618P2C3.txt
310

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<220>
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<222> 9, 11, 13, 15, 17
<223> unknown amino acid

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1 5 10 15

Cys Xaa Asn